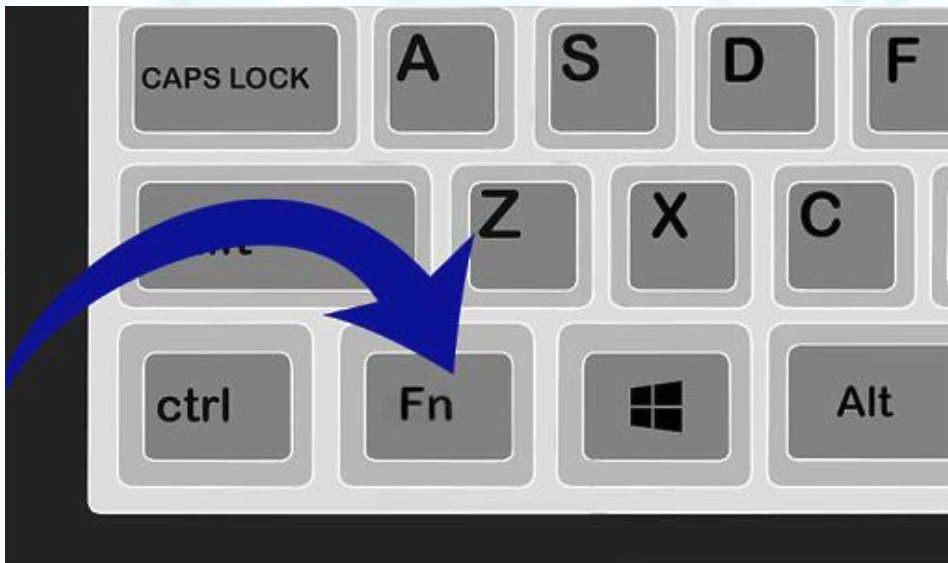




# Function Keys



# Function keys

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# Function Keys

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**F1 = Help**

**F2 = Rename any file/folder**

**F3 = Search**

**F4 = Repeat last action performed (MS Word)**

**F5 = Refresh/ Reload Page**

# Function Keys

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**F6 = In Browser : Moves cursor to the address bar**

**F7 = Spelling and Grammar dialog box**

**Shift+F7 = Thesaurus in MS Word**

**F8 = Enable safe mode in windows**

**F9 = Refreshes a document in Microsoft Word**

**F9 = Sends and receives emails in Outlook**



# Function Keys

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**F10 = MS Word = Activate the menu bar or Ribbon**

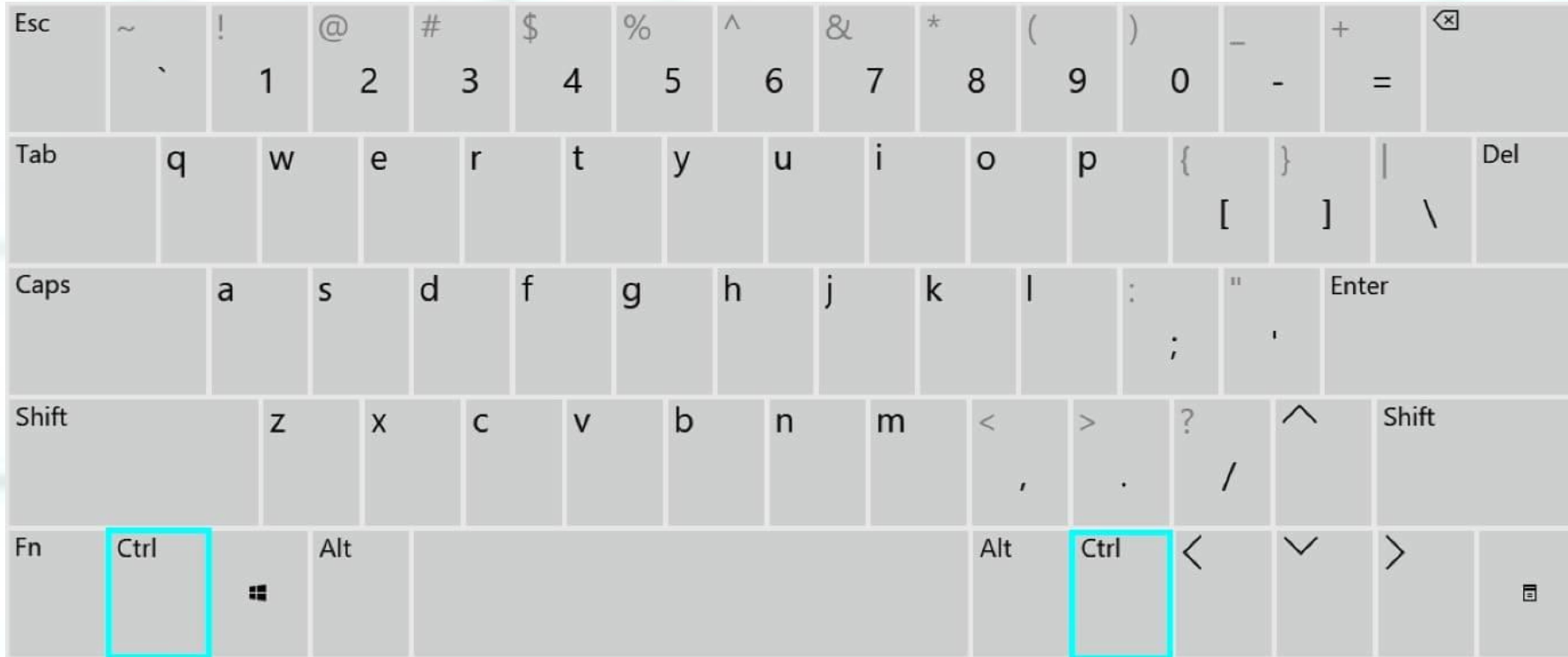
**Shift+F10 = Same as Right Click on Desktop**

**F11 = Exit & Enter full screen mode on browser**

**F12 = Open Save As Dialogue Box**

# Control Keys

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# Control Keys

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- 1) Written as = Ctrl
- 2) Type = Modifier Key
- 3) Modifier Keys = Ctrl, ALT, Shift
- 4) Toggle Keys = Caps lock, Num Lock, Scroll Lock

# Control Keys Commands

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- ✓ **Ctrl + A = Select**
- ✓ **Ctrl + B = Bold**
- ✓ **Ctrl + C = Copy**
- ✓ **Ctrl + D = Open font window in Microsoft Word.**
- ✓ **Ctrl + E = Center Alignment**
- ✓ **Ctrl + F = Open find window**
- ✓ **Ctrl + G = GO TO**

# Control Keys Commands

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- ✓ **Ctrl + H = Find and Replace**
- ✓ **Ctrl + I = Italicize text**
- ✓ **Ctrl + J = Justify alignment**
- ✓ **Ctrl + K = Create a hyperlink**
- ✓ **Ctrl + L = Left alignment**
- ✓ **Ctrl + M = In Microsoft Word it indents a paragraph of text.**
- ✓ **Ctrl + N = Create a new page**



# Control Keys Commands

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- ✓ **Ctrl + O = Open a file**
- ✓ **Ctrl + P = Print**
- ✓ **Ctrl + Q = Remove paragraph formatting**
- ✓ **Ctrl + R = Right align text**
- ✓ **Ctrl + S = Save document**
- ✓ **Ctrl + T = Create new tab in web browser**
- ✓ **Ctrl + U = Underline Text**
- ✓ **Ctrl + V = Paste**

# Control Keys Commands

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- ✓ **Ctrl + W = Close open tab in a browser**
- ✓ **Ctrl + X = Cut**
- ✓ **Ctrl + Y = Redo**
- ✓ **Ctrl + Z = Undo**
- ✓ **Ctrl + Alt + Del = 3 Finger Key = Open Task Manager/Reboot Computer**

# NumLock Keys



✓ Normal Keyboard has = 17 NumLock Keys



- ✓ 10 = 0-9
- ✓ 4 = +-\* /
- ✓ 2 = Del, Enter
- ✓ 1 = Num Lock

# F & J = Keys

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- ✓ Home Row Keys
- ✓ Guide Keys
- ✓ Bumps

# Modifier = Keys

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✓ **Ctrl**

✓ **Alt**

✓ **Shift**



# Toggle = Keys

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- ✓ Capslock
- ✓ Numlock
- ✓ Scrolllock

# Other Keys

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# Other Keys



- ✓ **Alt+Tab = Switch between open programs**
- ✓ **Shift+Del = Permanent Delete**
  
- ✓ **Home = Moves the beginning of the current line**
- ✓ **End = Moves to the end of the line**
  
- ✓ **Ctrl+Home = Moves to the beginning of the document**
- ✓ **Ctrl+End = Moves to the end of the document**

# Other Keys



- ✓ **Ctrl + T = Open a TAB (Internet)**
- ✓ **Ctrl + W = Close a Tab (Internet)**
- ✓ **Ctrl + F4 = Close a Tab (Internet)**
  
- ✓ **Ctrl + F4 = Closes the current window (MS Word)**
- ✓ **Alt + F4 = Close the application (MS Word)**

# DAY-2

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## Test

- 1- ctrl + q = remove paragraph formatting
- 2- ctrl + k = insert hyperlink
- 3- ctrl + h = find and replace
- 4- f10 = Activate menu/ribbon
- 5- f7 = spell/grammatical check





**Memory = Save (Storage) + Speed**

**Primary memory = ram (Temp) + rom (permanent)**

**Secondary memory = storage/save (Permanent) = hard disk/ssd = solid state drive / compact disk - cd/dvd/brd**

**hard disk + ssd = speed/ storage**

**pen drive/ssd/memory card = secondary memory = flash memory/flash drive**

**EEPROM = electrically erasable programmable read only memory**

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**ram =? = random access memory**

**rom =? = read only memory**



**RAM = Notepad = open = no save = data? = ram = lost = game = no = ram**

**RAM = Notepad = open = save(name) = data? = hard sisk = secondary  
memory**

**ram = temporary = fastest**

**permanent = slowest**



## **fastest memory (temp memory)**

- 1- register**
- 2- cache**
- 3- ram**

## **slowest (permanent)**

- 1-floppy disk**
- 2-hard disk**
- 3-ssd**
- 4-memory card**
- 5-pen drive**
- 5-optical disk = cd, dvd, brd = blue ray disc**

**ROM = read only memory**

**permanent**

**dabang = commitment**

**instructions ko delete kar pana possible nhi hota hai**

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**mobile = on = logo = redmi, apple, samsung..apni image laga lo =**

**no = rom = booting process = via manufacturer**

**rom =**

**prom = rom = programmable rom = editing not possible**

**eprom = erasable p rom = editing = uv = ultra violet rays**

**eprom = electrically eprom = erase = electric signal**

**name that instructions which are written in ROM are called as ? -**

**firmware**



**firmware = hardware + software**

**1- rom = instructions**

**2- tv remote**

**3- street signal**

**drone system = firmware**



**car (bmw - black) →**

**shop/showroom(register) → godown(cache) → factory/compa  
ny(ram) → manufacturing (hard disk)**

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**computer= cpu = data =**

**cpu(register) → cache → ram → hard disk/ssd/od/pd**

**ram = main memory**

**cpu = processor**

**name the memory lies between processor & main memory? = cache memory**

**name the memory lies between cpu & ram? = cache memory**

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**register =**

**temp memory**

**fastest memory**

**cpu inside**

**binay numbers? = 0/1 = 01 01 01 01 01 01 01**

**0 = flip flop**

**1 = flip flop**

**flip flop + flip flop + flip flop + flip flop = register**



**smallest memory unit = bit**

**bit = binary digit**

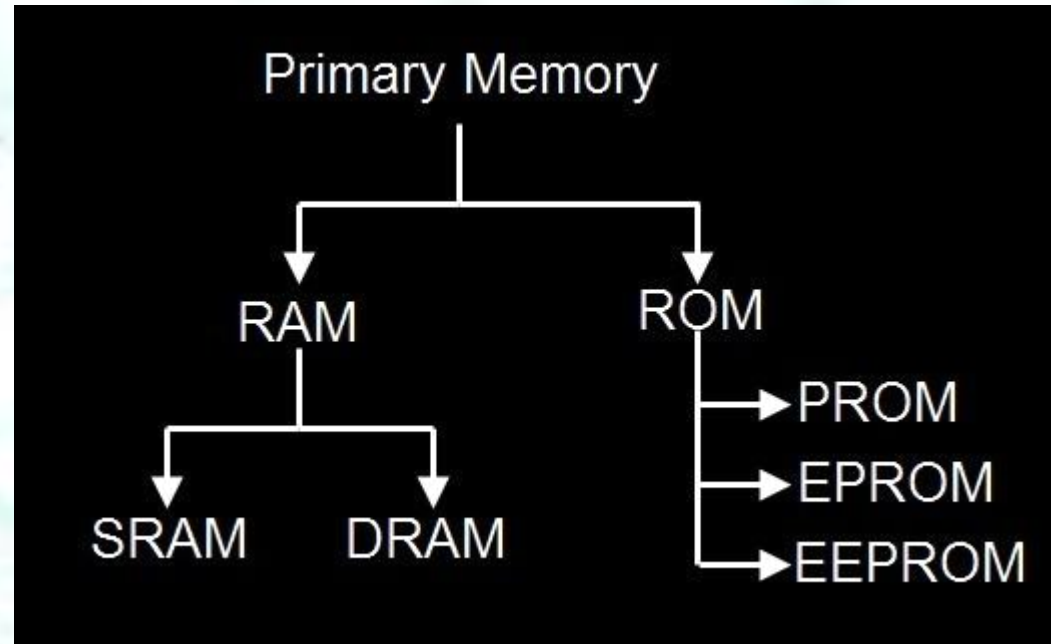
**bit = 0/1**

**0/1 = flip flop**

**ff + ff+..n = register**



# Primary Memory



# Primary Memory also called as :

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- 1) Main Memory**
- 2) Internal Memory**
- 3) Semiconductor Memory**

# Types of Primary Memory

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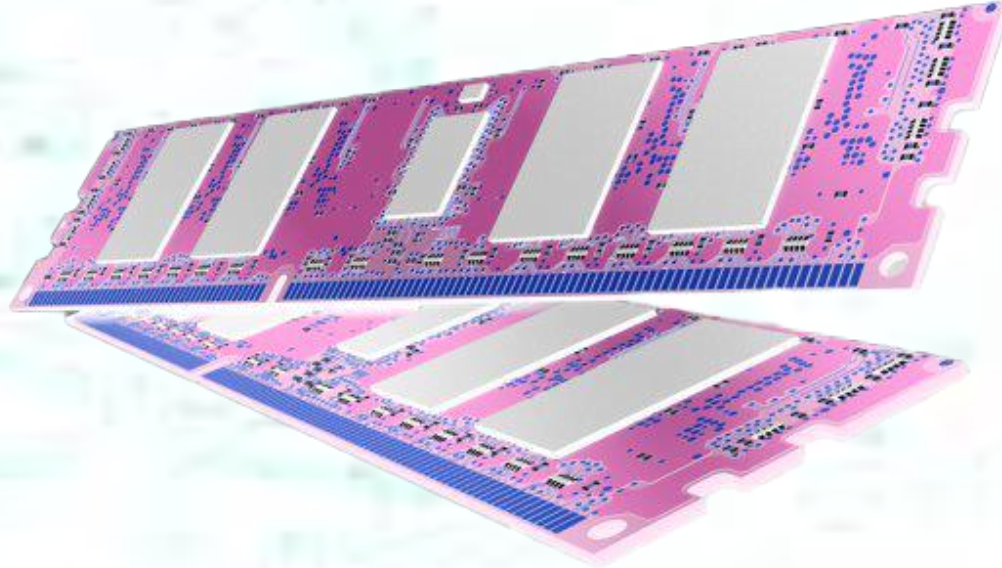


- 1) **RAM = Random Access Memory**
- 2) **ROM = Read Only Memory**
- 3) **Cache**
- 4) **Register**



# RAM

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# RAM



- 1) **Founder = Robert Heath Dennard**
- 2) **Random Access Memory**
- 3) **Temporary/Volatile**
- 4) **Read + Write**
- 5) **RAM Speed = Megahertz (MHz)**  
**/Millions of cycles per second**



## ➤ **RAM Types**

- ✓ **SRAM**
- ✓ **DRAM**

### **SRAM**

- ✓ **Static RAM**
- ✓ **Used to create = Cache Memory**
- ✓ **Fastest Memory**
- ✓ **Made up of = Transistors**

## ➤ **RAM Types**

- ✓ **SRAM**
- ✓ **DRAM**

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### **DRAM**

- ✓ **Dynamic RAM**
- ✓ **Slowest**
- ✓ **Need Refresh**
- ✓ **Used in Laptop/PC/Mobile**
- ✓ **Made up of = Capacitors**

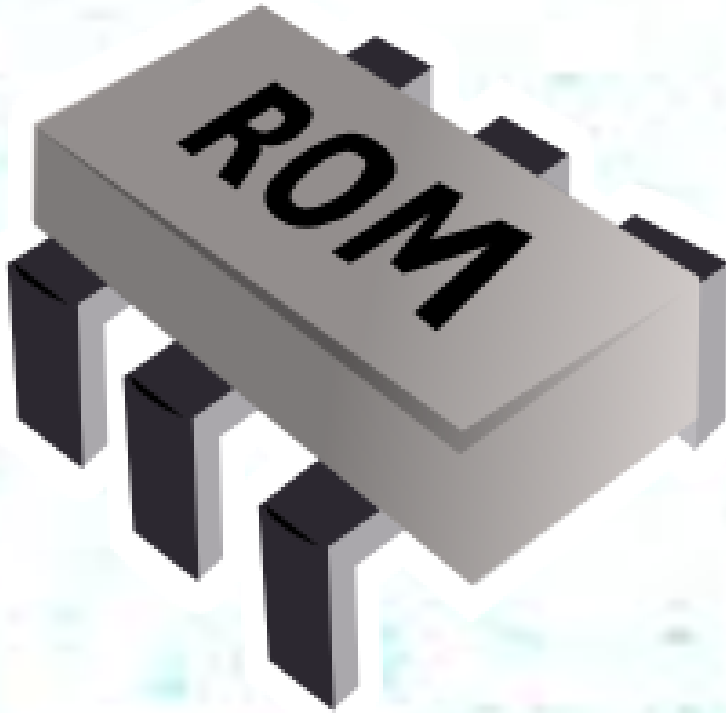
## DRAM Types

- ✓ **SD RAM = Synchronous Dynamic RAM**
- ✓ **DDR = Double Data Rate**
- ✓ **DDR-1**
- ✓ **DDR-2**
- ✓ **DDR-3**
- ✓ **DDR-4**
- ✓ **DDR-5**



# ROM

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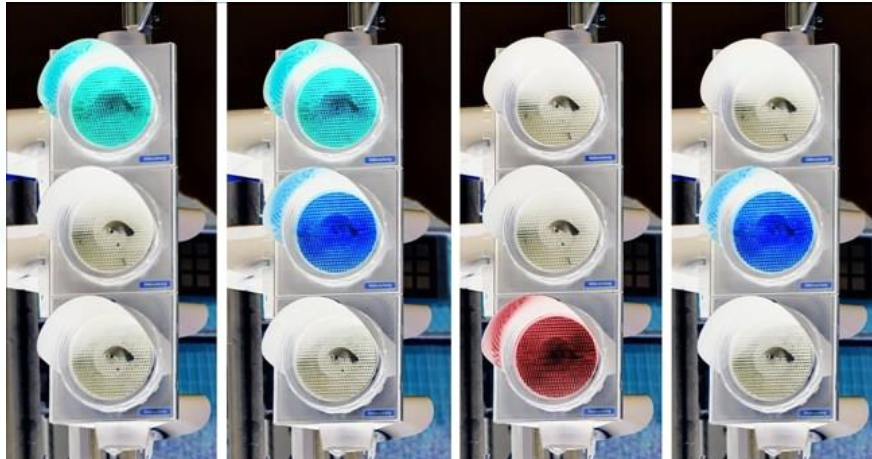


# ROM

- ✓ Read Only Memory
- ✓ Read
- ✓ Permanent Memory
- ✓ Help = Booting
- ✓ Non Volatile in nature
- ✓ Used to store = BIOS Software
- ✓ ROM Instructions = Firmware
- ✓ Not Modified
- ✓ Firmware = Hardware + Software

# Firmware & Categories

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# Firmware Example

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- ✓ Firmware is a = Software program on the hardware device
  - ✓ Called = “Software for Hardware”
  - ✓ Firmware is = Drivers auto installed in Hardware
  - ✓ Instructions written in ROM called = Firmware
  - ✓ Types of Firmware = 2
- 1) **UEFI BIOS** = Unified Extensible Firmware Interface = Modern PC
  - 2) **Legacy BIOS** = Older PC

# Firmware Example

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- ✓ **Timing and control systems for washing machines.**
- ✓ **Embedded Systems**
- ✓ **Routers**
- ✓ **Switches**
- ✓ **Firewall**
- ✓ **Modem**
- ✓ **Traffic Lights**
- ✓ **TV Remote**
- ✓ **Digital watches**
- ✓ **CCTV**





## ROM Types

- ✓ **PROM** = Programmable ROM/ROM = No Editing is possible
- ✓ **EP ROM** = Erasable Programmable ROM = Editing possible = UV = Ultra Violet Rays = Manufacturer
- ✓ **EEP ROM** = Electrically Erasable Programmable ROM = Manufacturer = Editing possible = Electric Signals = **Flash Memory** = Pen Drive, Memory Card, SSD = Solid State Drive



# Fastest Memory

1. Register
2. Cache
3. RAM





**Q.1. Name the Fastest Memory .?**

- 1) Cache
- 2) Register**
- 3) Flip Flop
- 4) RAM

**Q.2. Which memory is nearest to CPU.?**

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- 1) Cache**
- 2) RAM**
- 3) ROM**
- 4) Register**



**Q.3. Cache Memory is made up of.?**

- 1) DRAM
- 2) SRAM
- 3) ROM
- 4) Registers



**Q.4. RAM is located in.?**

- 1) Peripheral**
- 2) Hard Disk**
- 3) Motherboard**
- 4) CPU**



**Q.5. Among these name the temporary memory.?**

- 1) RAM**
- 2) ROM**
- 3) RAM & ROM**
- 4) Firmware**



**Q.6. Among these name the permanent memory.?**

**1) RAM**

**2) ROM**

**3) RAM & ROM**

**4) Firmware**





**Q.7. Instructions written in ROM are called.?**

- 1) Hardware**
- 2) Software**
- 3) Firmware**
- 4) Malware**



**Q.8. Transistor is used in.?**

- 1) SRAM**
- 2) DRAM**
- 3) SDRAM**
- 4) SSDRAM**



**Q.9. Capacitor is used in.?**

- 1) SRAM
- 2) DRAM**
- 3) SDRAM
- 4) SSDRAM



**Q.10. Which of the following memories must be refreshed many times per second.?**

- 1) SRAM
- 2) DRAM**
- 3) SDRAM
- 4) SSDRAM



**Q.11. Access time is faster for .?**

- 1) ROM
- 2) SRAM**
- 3) DRAM
- 4) ERAM



**Q.12. What does SDRAM stands for .?**

- 1) Single Dynamic RAM**
- 2) Static Dynamic RAM**
- 3) Serial Dynamic RAM**
- 4) Synchronous Dynamic RAM**





**Q.13. The most advanced form of ROM is .?**

- 1) PROM**
- 2) RAM**
- 3) Cache memory**
- 4) EEPROM**



**Q.14. Which memory helps in booting of computer.?**

- 1) RAM**
- 2) Flash memory**
- 3) ALU**
- 4) ROM**



**Q.15. Which type of memory cannot be erased and reprogrammed.?**

- 1) EEPROM**
- 2) PROM**
- 3) Flash**
- 4) Cache memory**



**Q.16. The next generation of SDRAM is .?**

- 1) DDR**
- 2) PROM**
- 3) Flash**
- 4) Cache memory**



**Q.17. In EEPROM data is erased with the help of.?**

- 1) Ultra Violet Rays**
- 2) Can not be erased**
- 3) Transistors**
- 4) Electric Signals**



**Q.18. Who invented RAM & ROM.?**

- 1) Tim Berners Lee**
- 2) Reynold B Johnson**
- 3) Robert Heath Dennard**
- 4) Robert Noyce**





**Q.19. Founder of EEPROM.?**

- 1) Fujio Masuoka**
- 2) Reynold B Johnson**
- 3) Robert Heath Dennard**
- 4) Robert Noyce**



**Q.20. Which of the following is the smallest entity of memory.?**

- 1) Block**
- 2) Cell**
- 3) Instance**
- 4) Set**



**Q.21. The primary memory (also called main memory) of a personal computer consists of.?**

- 1) RAM only**
- 2) ROM only**
- 3) Both RAM and ROM**
- 4) Cache memory**



**Q.22. The Boot sector files of the system are stored in which computer memory.?**

- 1) RAM**
- 2) ROM**
- 3) Cache**
- 4) Register**



**Q.23. Which of the following statements are not correct about the main memory of a computer.?**

- 1) In main memory, data gets lost when power is switched off.**
- 2) Main memory is faster than secondary memory but slower than registers.**
- 3) They are made up of semiconductors.**
- 4) All are correct**



Q.24. RAM is \_\_\_\_\_ and \_\_\_\_\_.?

- 1) volatile, temporary
- 2) non-volatile, temporary
- 3) volatile, permanent
- 4) non-volatile, permanent





**Q.25. Which of the following has the fastest speed in the computer memory hierarchy?**

- 1) Cache**
- 2) Register in CPU**
- 3) Main memory**
- 4) Disk cache**



**Q.26. Which computer memory chip allows simultaneous both read and write operations.?**

- 1) ROM
- 2) RAM
- 3) PROM
- 4) EEPROM



**Q.27. Which type of ROM is used for erasing purposes only.?**

- 1) PROM**
- 2) EPROM**
- 3) EEPROM**
- 4) Both 1 and 3**



**Q.28. How many types of RAM are available.?**

**1) 4**

**2) 3**

**3) 2**

**4) 5**



**Q.29. The computer internal memory consists of.?**

- 1) Cache memory, registers**
- 2) CPU registers, main memory, cache memory**
- 3) Main memory, secondary memory**
- 4) Virtual memory, cache memory**



**Q.30. Main memory (also called primary memory) store(s).?**

- 1) Data alone**
- 2) Program alone**
- 3) Results alone**
- 4) All**





**Q.31. Primary storage is \_\_\_\_\_ as compared to secondary storage.?**

- 1) Slow and inexpensive**
- 2) Fast and inexpensive**
- 3) Fast and expensive**
- 4) Slow and expensive**



**Q.32. Which of the following can be used as main memory.?**

- 1) Compact disk**
- 2) Magnetic disk**
- 3) Hard disk**
- 4) None of these**



**Q.33. How can you measure the speed of RAM.?**

- 1) Capacity**
- 2) Bus width**
- 3) Bus speed**
- 4) Both 2 and 3**



**Q.34. RAM is volatile in nature because.?**

- 1) it can be used for both reading and writing operations.**
- 2) by which we can access from any location.**
- 3) it must need power supply continuously to retain data.**
- 4) it does not need power supply continuously.**



**Q.35. Which type of RAM can be used as cache memory.?**

- 1) SRAM**
- 2) DRAM**
- 3) SDRAM**
- 4) Both 1 and 2**



**Q.36. Permanent Memory of a computer is known as.?**

- 1) RAM**
- 2) CD-ROM**
- 3) ROM**
- 4) CPU**





**Q.37. Which among the following memories is used in Digital camera.?**

- 1) Virtual Memory
- 2) Flash memory
- 3) Main Memory
- 4) Cache Memory



**Q.38. Which type of ROM has to be custom built by the factory.?**

- 1) EEPROM
- 2) Mask ROM
- 3) EPROM
- 4) PROM



**Q.39. Mask ROM chips or MROM chips used in.?**

- 1) Network operating systems**
- 2) Server operating systems**
- 3) Both of these**
- 4) None of these**



**Q.40. A major disadvantage of the mask ROM is that.?**

- 1) It is time consuming to change the stored data when system requirements change**
- 2) It is very expensive to change the stored data when system requirements change**
- 3) It cannot be reprogrammed if stored data needs to be changed**
- 4) It has an extremely short life expectancy and requires frequent replacement**



**Q.41. MROM chips are made up of.?**

- 1) RAM**
- 2) Transistor**
- 3) Capacitor**
- 4) Integrated Circuit**



**Q.42. What is the maximum time required before a dynamic RAM must be refreshed.?**

- 1) 2 ms**
- 2) 4 ms**
- 3) 8 ms**
- 4) 10 ms**





**Q.43. Which is/are the basic refresh mode(s) for dynamic RAM.?**

- 1) Burst refresh**
- 2) Distributed refresh**
- 3) Open refresh**
- 4) Burst refresh and distributed refresh**



**Q.44. Flash memory is also called as.?**

- 1) Flash RAM**
- 2) Flash ROM**
- 3) Flash DRAM**
- 4) Flash DROM**



**Q.45. The contents of memory into blocks of the same size is called as.?**

- 1) ROM**
- 2) EPROM**
- 3) EEPROM**
- 4) All of above**



**Q.45. The contents of memory into blocks of the same size is called as.?**

- 1) ROM**
- 2) EPROM**
- 3) EEPROM**
- 4) All of above**



**Q.46. The software substituted for hardware and stored in ROM.?**

- 1) Synchronous Software**
- 2) Package Software**
- 3) Firmware**
- 4) Middleware**



**Q.47. Storage of firmware is.?**

- 1) Cache Memory**
- 2) RAM**
- 3) External**
- 4) ROM**





**Q.48. RAM is also known as.?**

**1) RWM**

**Read Write Memory**

**2) MBR**

**3) MAR**

**4) ROM**



**Q.49. What type of DRAM is synchronized with the system clock.?**

- 1) EDO                      synchronous dynamic random**
- 2) BEDO                access memory**
- 3) FPM**
- 4) SDRAM**



**Q.50. ROM is needed for storing an initial program called.?**

- 1) Computer Startup Loader**
- 2) OS Version**
- 3) Kernel**
- 4) Bootstrap Loader**



**Q.51. The most advanced form of ROM is.?**

- 1) PROM**
- 2) RAM**
- 3) EEPROM**
- 4) Cache Memory**



**Q.52. Which of the following is true about primary storage.?**

- 1) It is a part of the CPU**
- 2) It allows very fast access to data**
- 3) It is relatively more expensive**
- 4) All of the above**



**Q.53. EPROM uses an array of.?**

- 1) p-channel enhancement type MOSFET
- 2) n-channel enhancement type MOSFET
- 3) p-channel depletion type MOSFET
- 4) n-channel depletion type MOSFET

**MOSFET = metal-oxide-semiconductor field-effect transistor.**





**Q.54. The EPROM was invented by.?**

- 1) Wen Tsing Chow
- 2) **Dov Frohman**
- 3) Luis O Brian
- 4) J P Longwell

**EPROM was invented by **Dov Frohman** of **Intel** in **1971****



**Q.55. The major disadvantage of RAM is.?**

- 1) Its access speed is too slow**
- 2) Its matrix size is too big**
- 3) It is volatile**
- 4) High power consumption**



**Q.56. ROMs retain data when.?**

- 1) Power is on**
- 2) Power is off**
- 3) System is down**
- 4) All of the Mentioned**



**Q.57. What is the difference between static RAM and dynamic RAM.?**

- 1) Static RAM must be refreshed, dynamic RAM does not**
- 2) There is no difference**
- 3) Dynamic RAM must be refreshed, static RAM does not**
- 4) SRAM is slower than DRAM**



**Q.58. ROM used in computers and other electronic devices to store relatively small amounts of data but allowing individual bytes to be erased and reprogrammed easily is termed as.?**

- 1) PROM**
- 2) EEPROM**
- 3) EEPROM**
- 4) NROM**

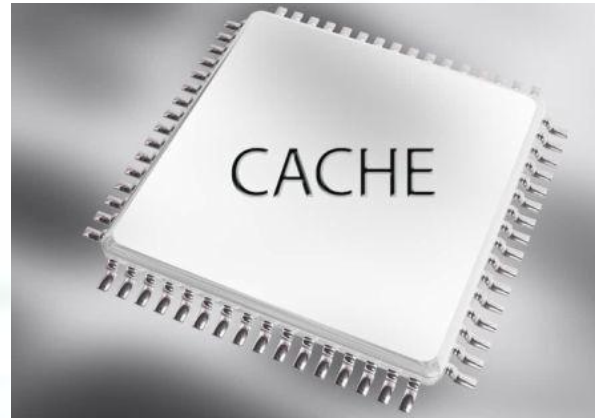


# **Cache Memory & Register Memory**

# **Virtual Memory & Buffer Memory**

# Cache Memory

- ✓ **2<sup>nd</sup> Fastest Memory**
- ✓ **Temporary Memory**
- ✓ **Volatile Memory**
- ✓ **Part of = Main Memory**
- ✓ **Located between = CPU & RAM**
- ✓ **Holds = Frequently used instructions and data**
- ✓ **Connected with = Motherboard**



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# Cache Memory

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- ✓ Data/Word is found in Cache = Hit
- ✓ Data/Word is not found in Cache = Miss
- ✓ Performance Measured = Hit Ratio
- ✓ Size is often restricted to = 8 KB and 64 KB

**Q.1. What is the high speed memory between the main memory and the CPU called.?**

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- 1) Register Memory**
- 2) Cache Memory**
- 3) Storage Memory**
- 4) Virtual Memory**

**Q.2. Whenever the data is found in the cache memory it is called as.?**

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**1) HIT**

**2) MISS**

**3) FOUND**

**4) ERROR**

**Q.3. Whenever the data is not found in the cache memory it is called as.?**

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**1) HIT**

**2) MISS**

**3) FOUND**

**4) ERROR**

**Q.4. The transfer between CPU and Cache is.?**

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- 1) Block transfer**
- 2) Word transfer**
- 3) Set transfer**
- 4) Associative transfer**

**Q.5. Which of the following disadvantages of cache memory.?**

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- 1) Cache memory is faster than main memory**
- 2) It consumes less access time**
- 3) It stores data for temporary use**
- 4) Cache memory has limited capacity**



**Q.6. What type of RAM does cache use.?**

- 1) SRAM**
- 2) DRAM**
- 3) SDRAM**
- 4) None of these**



**Q.7. This memory is located very close to the RAM.?**

**1) Register**

**2) Cache**

**3) Buffer**

**4) ROM**

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**Q.8. Cache memory is also called as.?**

- 1) Cache Store**
- 2) RAM Cache**
- 3) Both of these**
- 4) None of these**



# What is LRU.?

- 1) Stands for = Least Recently Used
- 2) It is common = Caching strategy
- 3) Called = Replacement Policy in Cache
- 4) When the **cache is full**, LRU technique is used to make room for new elements by discarding least recently used data first



**Q.9. LRU stands for.?**

- 1) Low Rate Usage**
- 2) Least Rate Usage**
- 3) Least Recently Used**
- 4) Low Required Usage**



**Q.10. For minimizing memory and processor speed mismatch, concept called.?**

- 1) ROM**
- 2) RAM**
- 3) Virtual Memory**
- 4) Cache Memory**

# Register Memory

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- ✓ **1<sup>st</sup> Fastest Memory**
- ✓ **Resides inside = CPU**
- ✓ **Collection of Flip Flop is called = Register**
- ✓ **Register hold data = 32 bit/64 bit**
- ✓ **Speed of CPU = Number of bit of Register**

# Q.1. Which memory is inside the CPU?

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- 1) Cache
- 2) RAM
- 3) ROM
- 4) Register



## Q.2. Name the Fastest Memory ?

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- 1) Cache
- 2) Register
- 3) Flip Flop
- 4) RAM

**Q.3. Register is a group of?**

**1) RAM**

**2) Bits**

**3) Flip Flop**

**4) Cache**

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**Q.4. The register is a type of.?**

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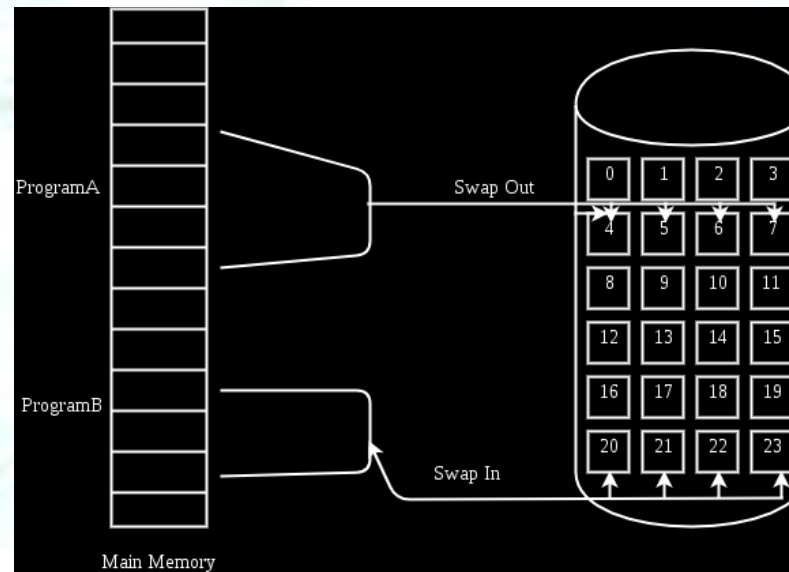
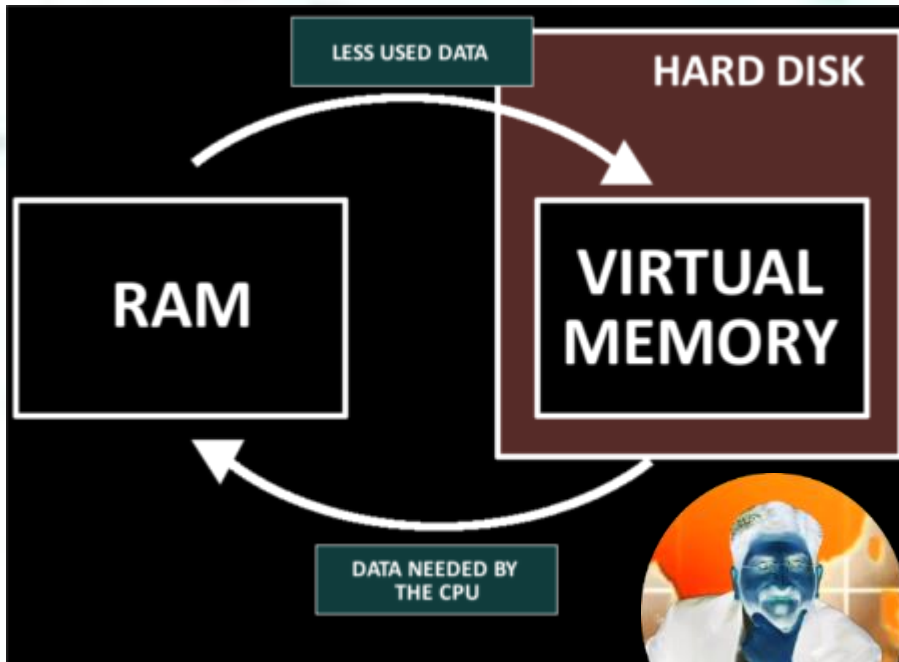


- 1) Sequential circuit**
- 2) Combinational circuit**
- 3) CPU**
- 4) Latches**

# Virtual Memory



- ✓ Illusion of having = Larger RAM
- ✓ Takes Space from = Secondary memory
- ✓ Swap In & Swap Out operation is used
- ✓ Works in concept of = Page Replacement



**Q.1. A computer can address more memory than the amount physically installed on the system. This extra memory is actually called.?**

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- 1) Virtual Memory**
- 2) Physical Memory**
- 3) Logical Memory**
- 4) Secondary Memory**

## Q.2. Virtual Memory is.?

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- 1) Extremely Large Main Memory
- 2) Extremely Large Secondary Memory
- 3) Illusion of extremely large main memory
- 4) Super Computer Memory

**Q.3. The mechanism that bring a page into memory only when it is needed is called.?**

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- 1) Segmentation**
- 2) Fragmentation**
- 3) Demand Paging**
- 4) Page Replacement**



# Buffer Memory

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- ✓ **Temporary Storage**
- ✓ **Temporary store data in RAM**
- ✓ **Purpose = To hold data right before it is used**
- ✓ **For example, when you download an audio or video file from the Internet, it may load the first 20% of it into a buffer and then begin to play.**
- ✓ **The buffer memory is mainly located in = Random Access Memory (RAM)**



# Flash Memory

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- ✓ Advanced form of = EEPROM
- ✓ Developed from = EEPROM
- ✓ EEPROM = electronically erasable programmable read-only memory
- ✓ Founder = Dr. Fujio Masuoka (Toshiba Employee)
- ✓ Year = 1980

# Flash Memory

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- ✓ Also called = Flash Storage
- ✓ Non Volatile Memory
- ✓ Permanent Memory
- ✓ Used in = embedded systems
- ✓ EEPROM = Byte-level erasable memory
- ✓ Flash Memory = larger block-level erasable memory
- ✓ Made up of = NOR or NAND Gates

# Flash Memory = Examples

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- ✓ **Pen Drive (USB Drive)**
- ✓ **Memory Sticks**
- ✓ **SD Cards**
- ✓ **Mobile Phones**
- ✓ **Digital Camera**
- ✓ **SSD (Solid State Drive)**

**Q.1. Pen drive is also known as.?**

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- 1) Flash Drive**
- 2) Data Stick**
- 3) Thumb Drive**
- 4) All of these**

**Q.2. Other name of Flash Drive is.?**

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- 1) Pen drive**
- 2) CD**
- 3) Hard Drive**
- 4) All of these**

**Q.3. Flash memory is a non-volatile storage device in which data.?**

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- 1) can be erased physically**
- 2) can be erased magnetically**
- 3) can be erased electrically**
- 4) cannot be erased**



**Q.4. NOR type flash allows \_\_\_\_\_ to be read or written independently.?**

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- 1) one machine cycle
- 2) one machine word
- 3) one machine sentence
- 4) one bit

## Q.5. NAND type flash memories are used in.?

- 1) Memory cards
- 2) USB
- 3) Solid state drive
- 4) All of the mentioned

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**Q.6. Which is a comparatively slower device.?**

- 1) ROM**
- 2) RAM**
- 3) Flash memory**
- 4) SRAM**

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**Q.7. In NOR type flash memory, each cell has one end connected to.?**

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- 1) source
- 2) drain
- 3) gate
- 4) ground

**Q.8. In NOR type flash memory, data is erased.?**

- 1) bitwise**
- 2) byte wise**
- 3) block wise**
- 4) sentence wise**

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**Q.9. The program erase cycle in flash memory is.?**

- 1) finite**
- 2) infinite**
- 3) all of the mentioned**
- 4) none of the mentioned**

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**Q.10. Which has high storage capacity.?**

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- 1) NOR type flash
- 2) NAND type flash
- 3) All of the mentioned
- 4) None of the mentioned



**Q.11. Flash Memory is later form of .?**

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- 1) ROM**
- 2) PROM**
- 3) EEPROM**
- 4) EPROM**

**Q.12. Which is the most basic non-volatile memory.?**

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- 1) Flash memory**
- 2) PROM**
- 3) EPROM**
- 4) ROM**

**Q.13. Which of the following memories has more speed in accessing data.?**

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- 1) SRAM**
- 2) DRAM**
- 3) EPROM**
- 4) EEPROM**

**Q.14. In which memory, the signals are multiplexed.?**

**1) DRAM**

**2) SRAM**

**3) EPROM**

**4) EEPROM**

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**Q.15. Which of the following is an example of solid-state storage device.?**

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**1) Hard Drive**

**2) CD**

**3) DVD**

**4) USB Flash Drive**

**Q.16. USB stands for \_\_\_\_\_.?**



- 1) Universal Serial Bus**
- 2) Universal Sequential Bus**
- 3) Unique Serial Bus**
- 4) Unique Sequential Bus**

## Q.17. Founder of USB is.?



- 1) Ajay V. Bhatt
- 2) Ajay Babbage
- 3) Ray Tomlinson
- 4) James Russell



- 1) Ajay V. Bhatt = USB
- 2) Ray Tomlinson = E-Mail
- 3) James Russell = CD
- 4) Optical Disc = David Paul Gregg





**Memory Unit**

**Memory Unit : Binary**

**Memory Unit : Decimal**

# Memory Unit

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**1 Bit = Binary Digit**

**4 Bits = 1 Nibble**

**8 Bits = 1 Byte**

**1024 Bytes = 1 KB (Kilo Byte)**

**1024 KB = 1 MB (Mega Byte)**

**1024 MB = 1 GB (Giga Byte)**

**1024 GB = 1 TB (Tera Byte)**

**1024 TB = 1 PB (Peta Byte)**

**1024 PB = 1 EB (Exa Byte)**

**1024 EB = 1 ZB (Zetta Byte)**

**1024 ZB = 1 YB (Yotta Byte)**

**1024 YB = 1 (Bronto Byte)**

**1024 BB = 1 (Geop Byte)**

# Memory Unit = Decimal

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**1 Kilobyte =  $10^3$  bytes**

**1 Megabyte =  $10^6$  bytes**

**1 Gigabyte =  $10^9$  bytes**

**1 Terabyte =  $10^{12}$  bytes**

**1 Petabyte =  $10^{15}$  bytes**

**1 Exabyte =  $10^{18}$  bytes**

**1 Zettabyte =  $10^{21}$  bytes**

**1 Yottabyte =  $10^{24}$  bytes**

# Memory Unit = Binary

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**1 Kibibyte (KiB) =  $2^{10}$  bytes**

**1 Mebibyte (MiB) =  $2^{20}$  bytes**

**1 Gibibyte (GiB) =  $2^{30}$  bytes**

**1 Tebibyte (TiB) =  $2^{40}$  bytes**

**1 Pebibyte (PiB) =  $2^{50}$  bytes**

**1 Exbibyte (EiB) =  $2^{60}$  bytes**

**1 Zebibyte (ZiB) =  $2^{70}$  bytes**

**1 Yobibyte (YiB) =  $2^{80}$  bytes**

# Binary Vs Decimal Units

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**Kilobyte (KB) = 1000 bytes =  $10^3$  bytes**

**Kibibyte (KiB) = 1024 bytes =  $2^{10}$  bytes**

**1 Million Bytes = 1 MB**

**1 Billion Bytes = 1 GB**

**1 Trillion Bytes = 1 TB**



# MS Office

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Excel



OneNote



Outlook



Word



PowerPoint



# MS Office Like Software Package

- 1) MS Office = Microsoft = Paid
- 2) LibreOffice = OpenOffice.org = Free
- 3) iWork = Apple = Paid
- 4) Google Suite/Google Workspace =  
Google = Free



# MS Office

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- 1) Year = 1988**
- 2) First Version = Office 1.0**
- 3) Latest Version = Office 2021**
- 4) Cloud Version = Office 365/Microsoft 365**

# MS Office Versions

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- |                 |                 |
|-----------------|-----------------|
| 1) Office 1.0   | 12) Office 2013 |
| 2) Office 2.0   | 13) Office 2016 |
| 3) Office 3.0   | 14) Office 2019 |
| 4) Office 4.0   | 15) Office 2021 |
| 5) Office 95    |                 |
| 6) Office 97    |                 |
| 7) Office 2000  |                 |
| 8) Office XP    |                 |
| 9) Office 2003  |                 |
| 10) Office 2007 |                 |
| 11) Office 2010 |                 |

# **MS Office 2021 = 05 Oct 2021 (Released) Arora Educator**



- 1) Access**
- 2) Excel**
- 3) OneNote**
- 4) Outlook**
- 5) PowerPoint**
- 6) Publisher**
- 7) Word**
- 8) Skype for Business.**



- 1) Microsoft Office 365 is a suite of cloud-based S/W.**
- 2) Integrates all Microsoft's existing online applications.**
- 3) Released : 28 June 2011**
- 4) Renamed as = Microsoft 365**
- 5) Space (Family subscription) = 6 TB**



**Q.1. Name the Microsoft Word Processing Software ?**

**A. MS Word**

**B. MS Excel**

**C. MS PowerPoint**

**D. MS Access**



**Q.2. Name the Microsoft Spreadsheet Software ?**

**A. MS Word**

**B. MS Excel**

**C. MS PowerPoint**

**D. MS Access**



**Q.3. Name the Microsoft Presentation Software ?**

- A. MS Word**
- B. MS Excel**
- C. MS PowerPoint**
- D. MS Access**





**Q.4. Name the Microsoft Database Software ?**

- A. MS Word**
- B. MS Excel**
- C. MS PowerPoint**
- D. MS Access**



**Q.5. \_\_\_\_\_ is the name of the paid service that replaces Office 365.?**

- A. Microsoft Cloud**
- B. Microsoft Skype**
- C. Microsoft 365**
- D. Microsoft 366**

**Q.6. MS Office 2021 released year is .?**

**Arora Educator**



**A. 2021**

**B. 2018**

**C. 2020**

**D. 2017**

**Q.7. Name the Microsoft Video Conferencing service. ?**

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**A. Meet**

**B. Team**

**C. Zoom**

**D. WhatsApp**



**Q.8. Name the cloud based software of MS Office?**

- A. Word 365**
- B. Office 365**
- C. Team 366**
- D. Outlook 365**



**Q.9. Among these which is not the version of MS Office?**

- A. Office 2019**
- B. Office 2016**
- C. Office 2011**
- D. Office 2013**

**Q.10. Name the first version of MS Office ?**

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**A. Office 0.0**

**B. Office 1.1**

**C. Office 1.0**

**D. Office XP**





**Q.11. MS Office is which type of Software?**

- A. System Software**
- B. Application Software**
- C. Utility Software**
- D. All of these**

**Q.12. MS Office launched in which year ?**

**Arora Educator**



**A. 1999**

**B. 1998**

**C. 1988**

**D. 2000**



**Q.13. MS Office is?**

- A. Open Source**
- B. Free Software**
- C. Can be modified**
- D. Proprietary software**



# MS Word

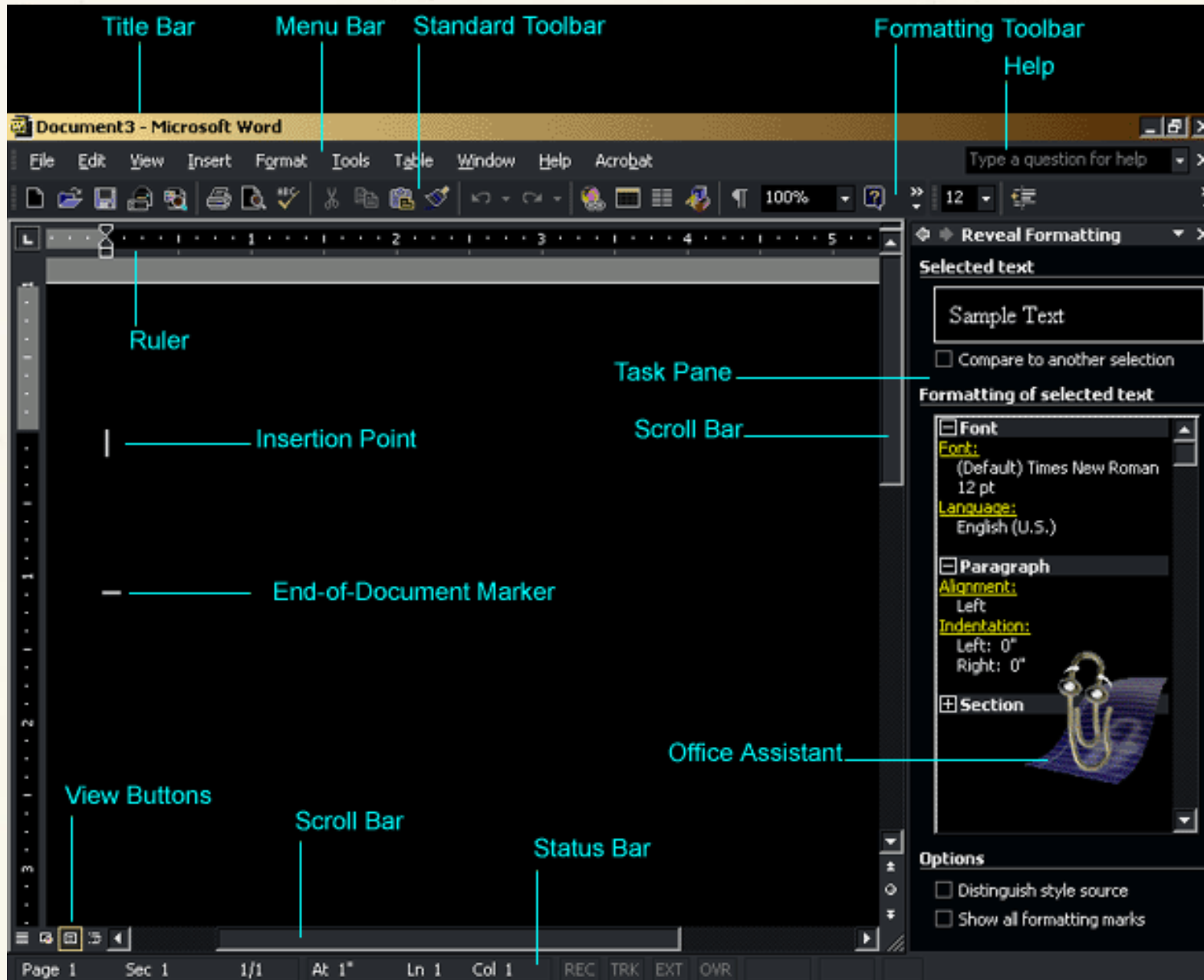
Arora Educator



W

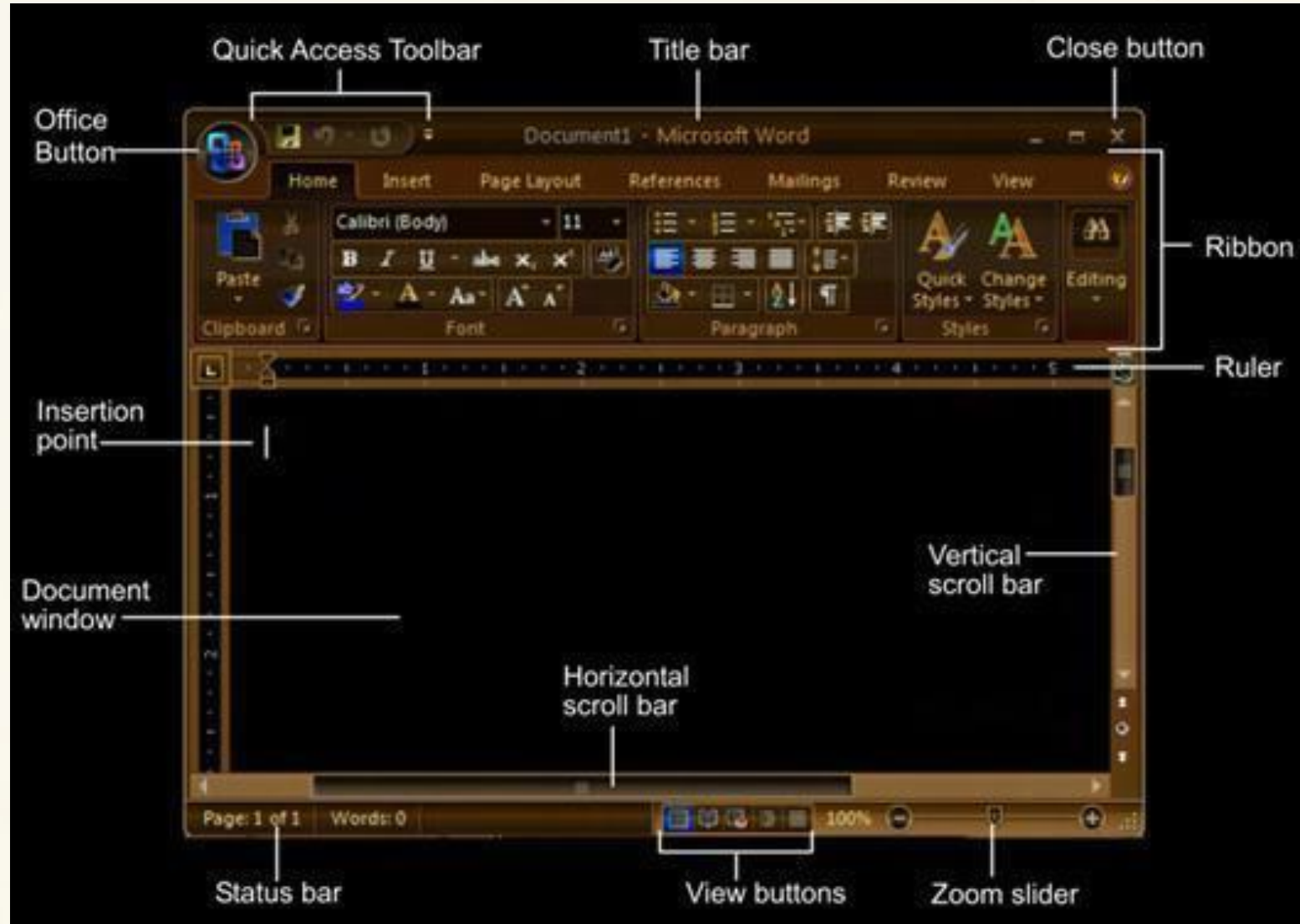
# MS Word

# Arora Educator



# MS Word

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# **MS Word = Word Processor**

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- 1) First Word Processor = Electric Pencil/WordStar**
- 2) Microsoft Word Processor = MS Word**
- 3) Corel Corporation = WordPerfect**
- 4) Apple = AppleWorks = Pages**
- 5) LibreOffice = OpenOffice.org = Writer**
- 6) Google = Google Docs**



# MS Word = Extensions

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- 1) **.doc = Microsoft Word document before Word 2007**
- 2) **.docx = Microsoft Word document (2007 onwards)**
- 3) **.docm = Microsoft Word macro-enabled document**
- 4) **.dot = Microsoft Word template before Word 2007**
- 5) **.dotx = Microsoft Word template (2007 onwards)**
- 6) **.dotm = Word macro-enabled template**

# MS Word = Word Processor

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- 1) F8 = enter Extend Mode
- 2) 2x F8 = highlight word
- 3) 3x F8 = highlight sentence
- 4) 4x F8 = highlight paragraph
- 5) 5x F8 = highlight entire document

# MS Word = Facts

Arora Educator



- 1) Thesaurus = Shift+F7
- 2) Spellcheck = F7
- 3) F8 (3 times) = Select Sentence
- 4) Change Case = Shift+F3
- 5) Print Preview = Ctrl + F2
- 6) Repeat last action = F4
- 7) Superscript = Ctrl Shift +
- 8) Subscript = Ctrl =

# MS Word = Facts

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- 9) Open Window = Ctrl + T
- 10) Close Window = Ctrl + W
- 11) Copyright = Alt + Ctrl + C
- 12) Font Dialog Box = Ctrl + D
- 13) Center Align = Ctrl + E
- 14) Single Line Spacing = Ctrl + 1
- 15) Double Line Spacing = Ctrl + 2
- 16) 1.5 Line Spacing = Ctrl + 5
- 17) Insert Current Date = Shift Alt D
- 18) Insert Current Time = Shift Alt T

# MS Word = Facts

Arora Educator



- 19) Ctrl + Enter = Page Break
- 20) Shift + Enter = Line Break
- 21) Start new paragraph = Enter
- 22) Permanent Delete = Shift + Delete
- 23) Delete Character from left = Backspace
- 24) Delete Character from Right = Delete
- 25) Zoom Percentage (Minimum) = 10
- 26) Zoom Percentage (Maximum) = 500



# MS Office

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Excel



OneNote



Outlook



Word



PowerPoint

# MS Word

Arora Educator



W



# **MS Word = Facts**

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- 19) Ctrl + Enter = Page Break**
- 20) Shift + Enter = Line Break**
- 21) Start new paragraph = Enter**
- 22) Permanent Delete = Shift + Delete**
- 23) Delete Character from left = Backspace**
- 24) Delete Character from Right = Delete**
- 25) Zoom Percentage (Minimum) = 10**
- 26) Zoom Percentage (Maximum) = 500**

# **MS Word = Facts**

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- 27) Title Bar = File Name + 3 Buttons (Minimize, Restore, Close)**
- 28) Menu Bar = Commands**
- 29) Tool Bar = Tools**
- 30) Scroll Bar = Horizontal/Vertical**
- 31) Status Bar = Page Count/Word Count + Zoom + Read Mode + Print Layout + Web Layout**

# **MS Word = Facts**

**Arora Educator**



- 32) Text Wrap = Picture + Text**
- 33) Word Wrap = Type paragraph continually**
- 34) Word art = Transform Text**
- 35) Page Number Insert = Header + Footer**
- 36) Watermark = Text + Image**
- 37) Font Size(Table) = 8, 72**
- 38) Maximum font size = 1638**
- 39) Max Columns = 63**
- 40) Max Row = Unlimited**

# **MS Word = Facts**

**Arora Educator**



- 41) Change Font = Formatting**
- 42) Extension = .doc/.docx**
- 43) Handwritten font = Script**
- 44) Font = Straight Edge = Sans Serif**
- 45) Font = Extended Edge = Serif**
- 46) Dropcap = Large Initial Letter**
- 47) Dropcap = Default Lines = 3**
- 48) Dropcap = Minimum Lines = 1**
- 49) Dropcap = Maximum Lines = 10**

# **MS Word = Facts**

**Arora Educator**



- 50) Ways to save a document = 3**
- 51) Command to start MS Word = winword.exe**
- 52) Page Orientation = Portrait + Landscape**
- 53) Default Page Orientation = Portrait**
- 54) Font (2003) = Times New Roman = 12 point**
- 55) Font (2007) = Calibri = 11 point**
- 56) Green Line = Grammatical Error**
- 57) Red Line = Spelling Error**
- 58) Blue Line = Contextual Spelling Error**

# **MS Word = Facts**

**Arora Educator**



- 59) Gutter Margin = Margin for printing**
- 60) Left Margin = 1.25 inch (2003)**
- 61) Left margin = 1 inch (2007)**
- 62) File Size (Text Only) = 32 MB**
- 63) File Size (Image + Text) = 512 MB**
- 64) Font Style = Regular, Italic, Bold, Bold Italic**
- 65) Macros = Visual Basic = Repetitive Task**
- 66) Clipboard = Cut/Copy**
- 67) Ruler = Set = Tab + Indent + Margin**

# **MS Word = Facts**

**Arora Educator**



- 68) Graphics for Word Processor = Clipart**
- 69) In Word, the mailing list is known as the = Data source**
- 70) MS Word = by default page size (2003/2007) = 8.5 by 11 inches = Letter**
- 71) Page Sizes = Letter, Tabloid, Legal, Executive, A3, A4, B4, B5, Envelope**
- 72) MS Word by default file name = Document1**

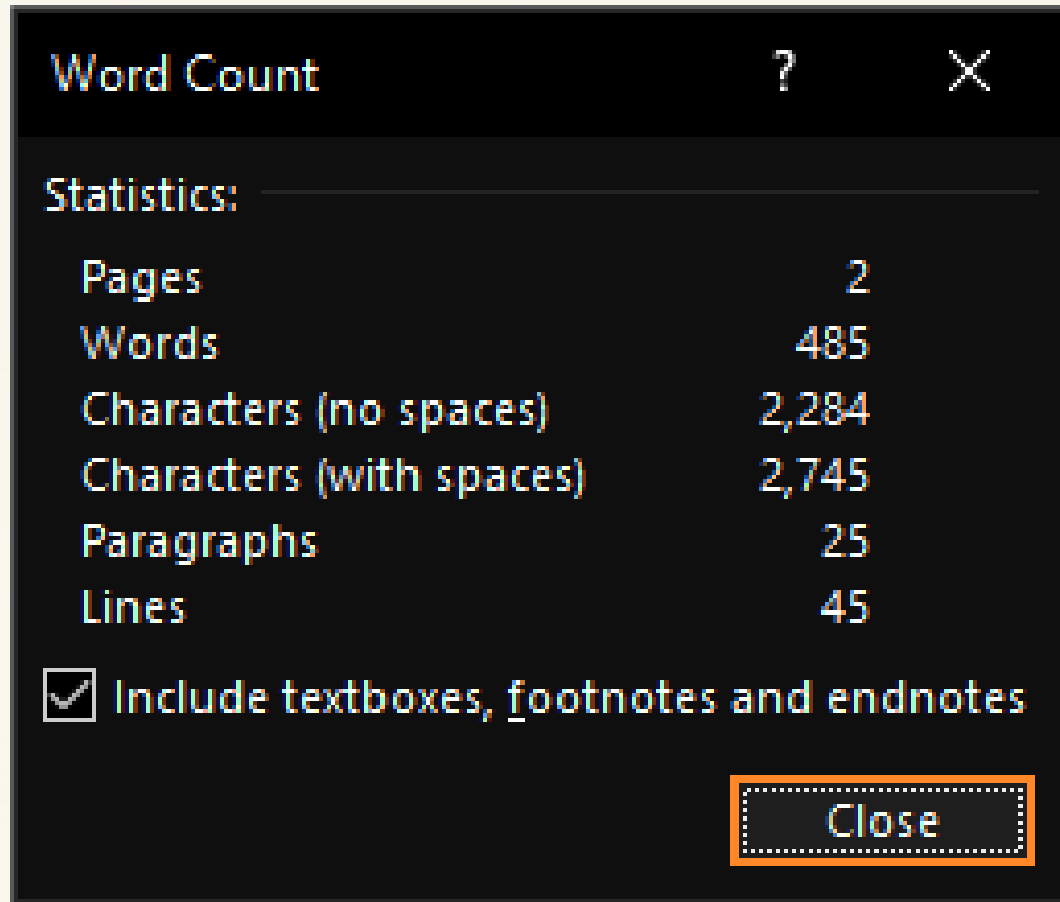


# MS Word = Facts

Arora Educator



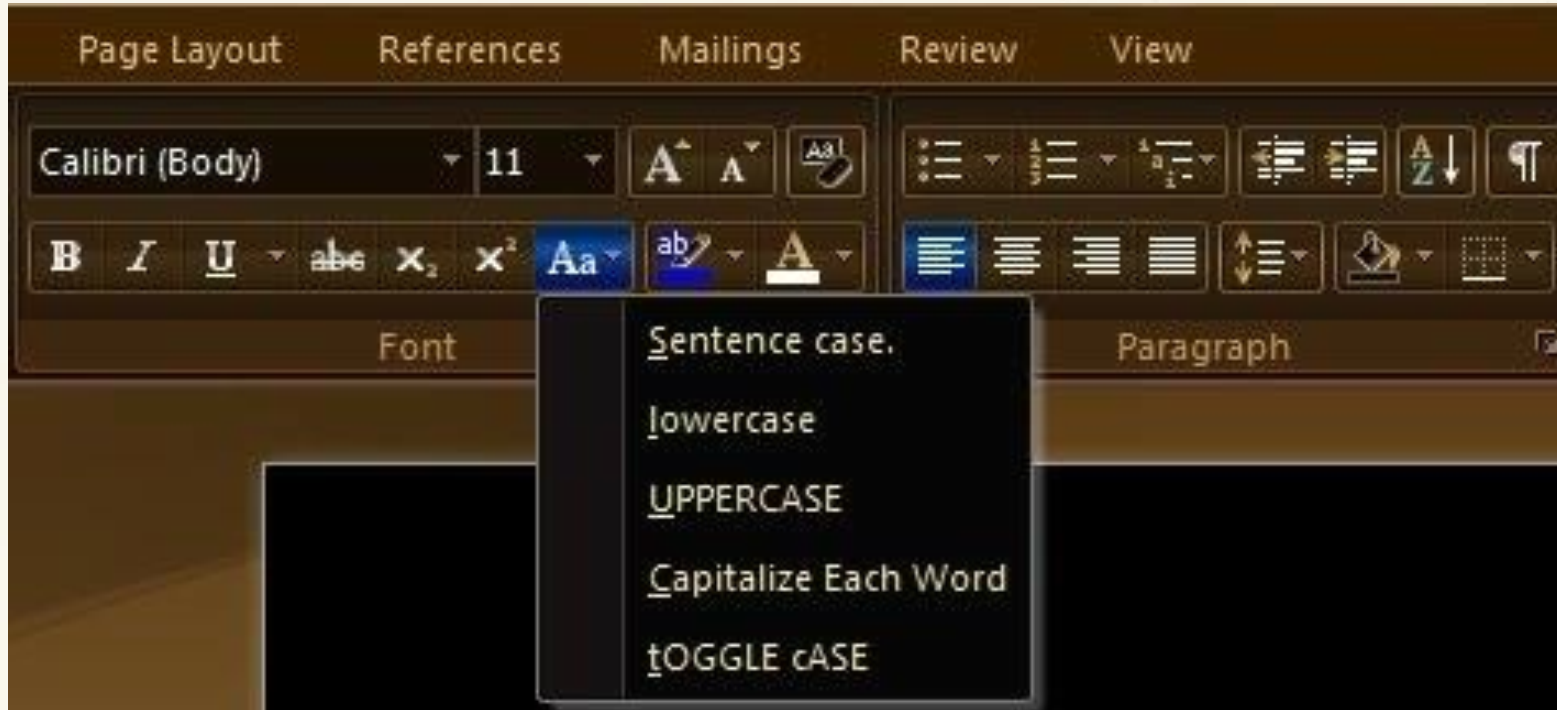
## Word Count = Ctrl + Shift + G



# MS Word = Facts

## Change Case = Shift + F3

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# Change Case

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**Sentence case = capitalize the first letter of a sentence**

**lowercase = exclude capital letters**

**UPPERCASE = To capitalize all of the letters**

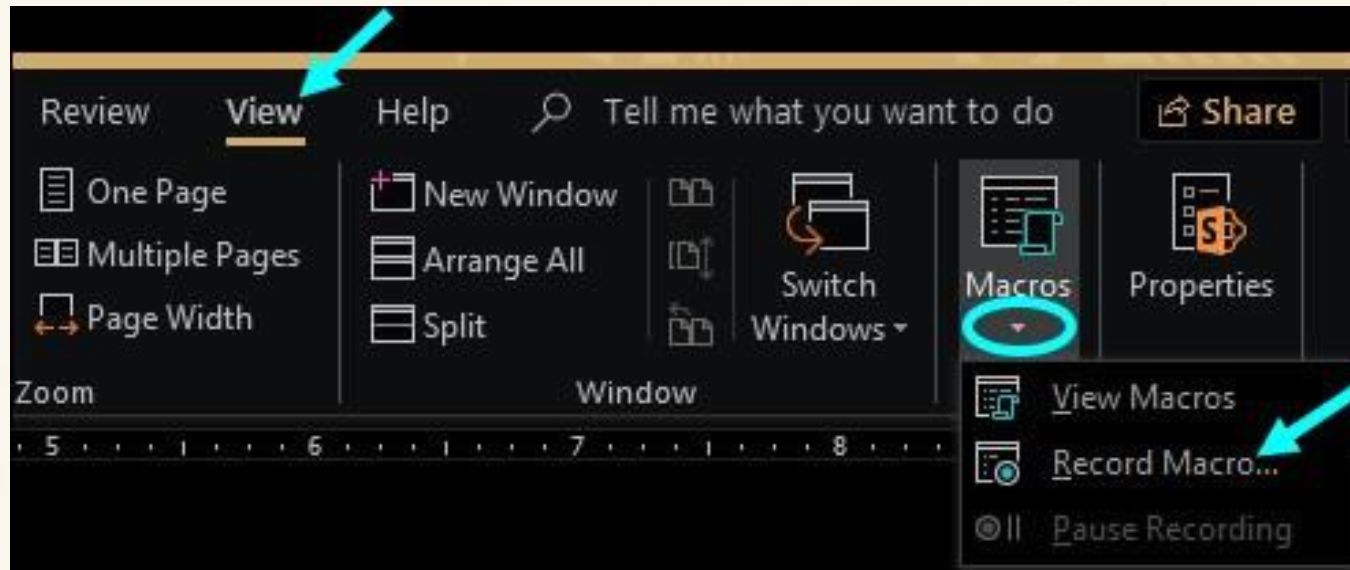
**Capitalize Each Word = To capitalize the first letter of each word**

**tOGGLE cASE = To shift between two case views**

# MS Word = Facts

## Macros

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Small programs created in MS-Word to **automate** repetitive tasks by using **VBA**

# MS Word = Facts

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## Format Painter

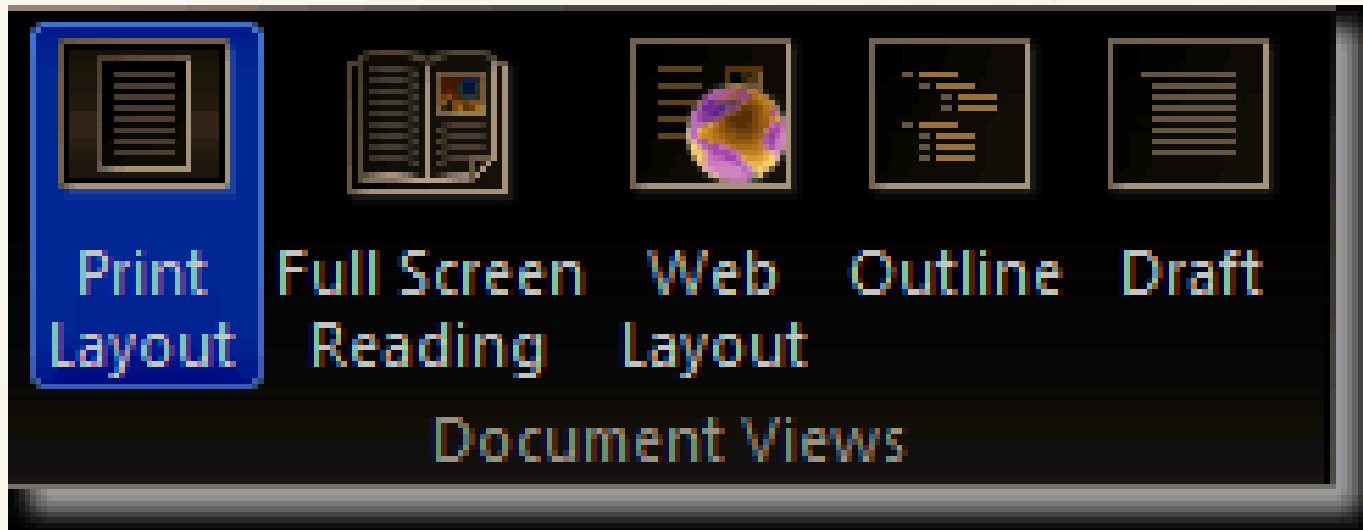


**Copy all of the formatting  
from one object and apply it  
to another one**

# MS Word = Facts

Views = 5

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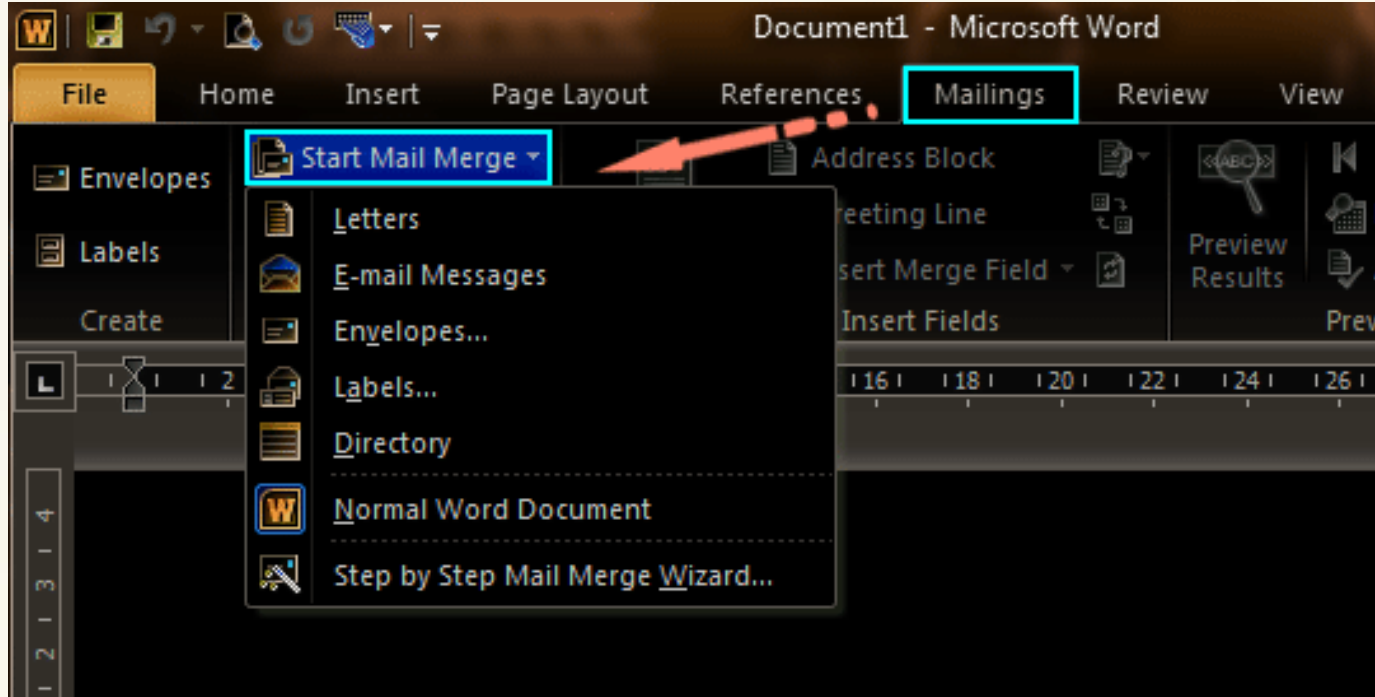


# MS Word = Facts

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## Mail Merge



Mailings tab

Send same letter to different persons



# **MS Word = Facts**

**Arora Educator**



**Tabs in MS Word = 8 (Latest)**

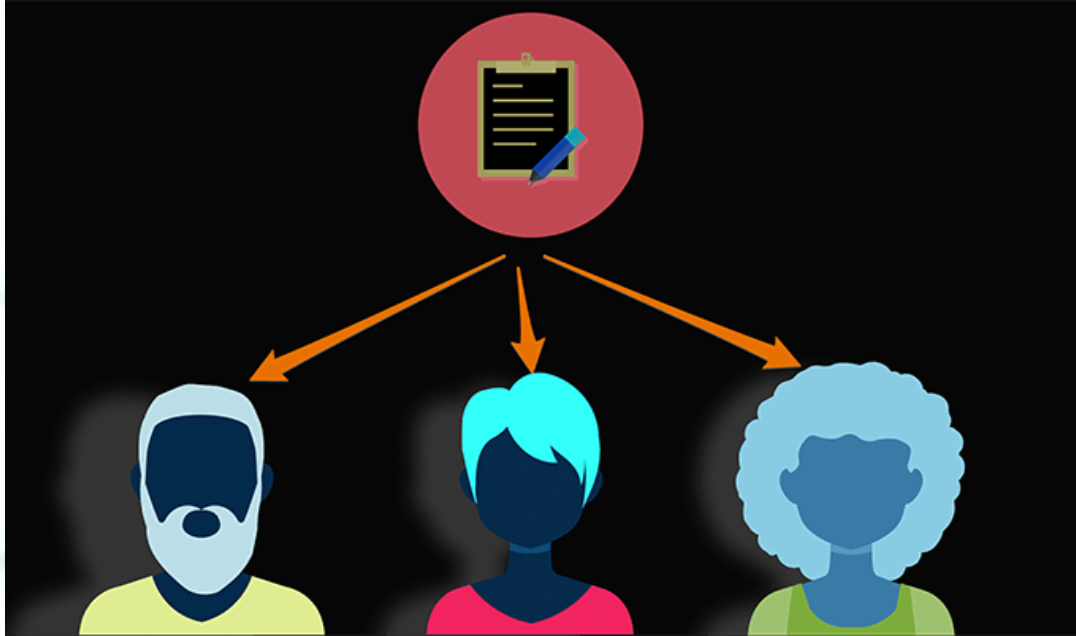
- 1) File**
- 2) Home**
- 3) Insert**
- 4) Page Layout**
- 5) References**
- 6) Mailings**
- 7) Review**
- 8) View**

**Arora Educator**

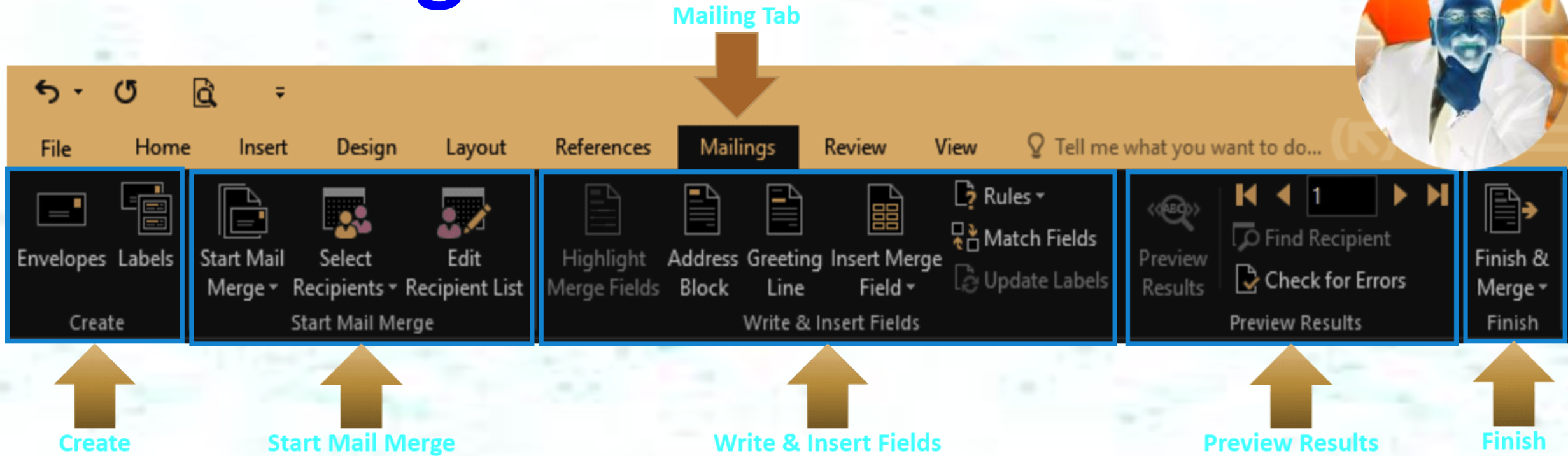


# Mail Merge = MS Word

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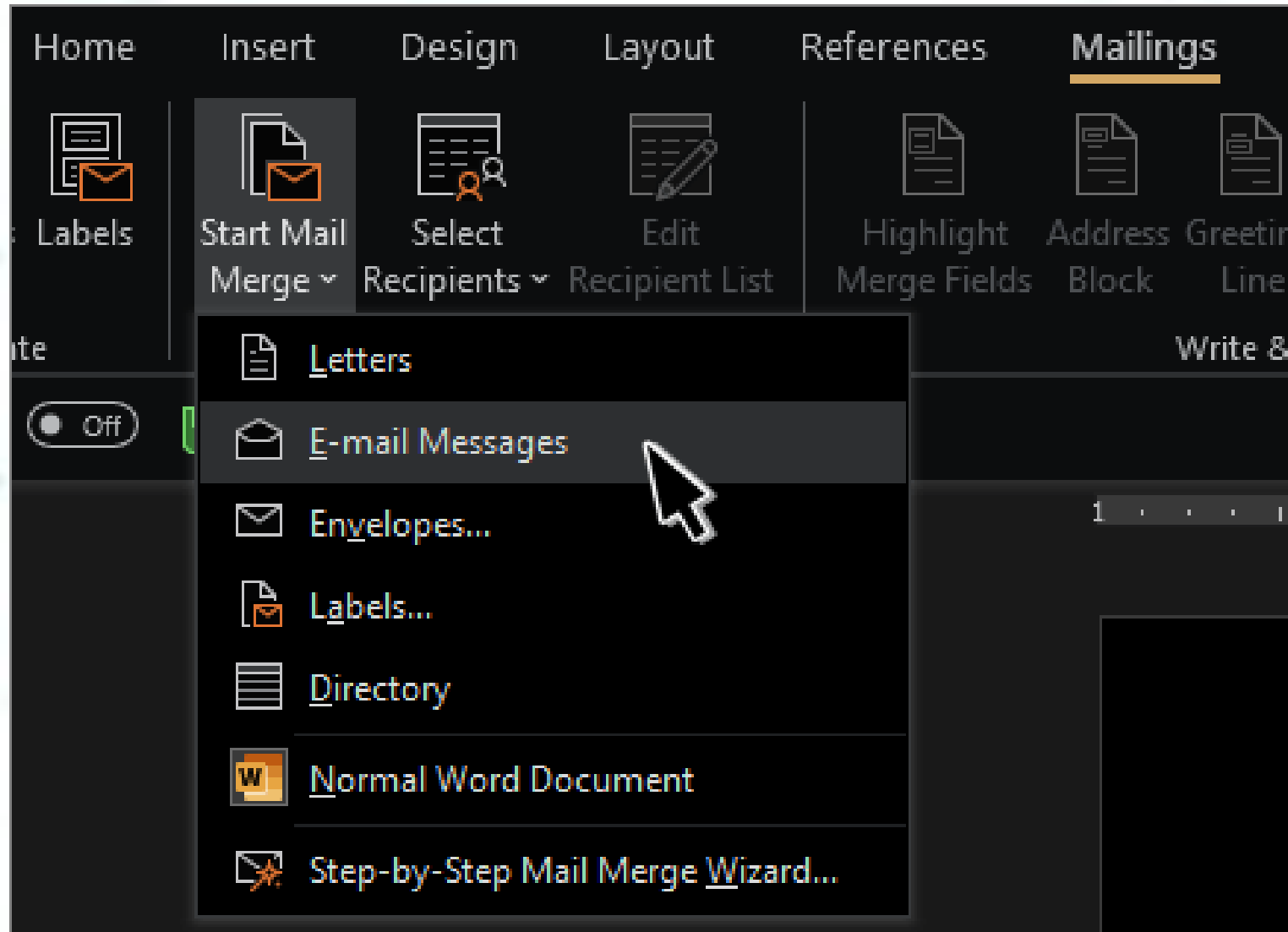


# Mail Merge = MS Word



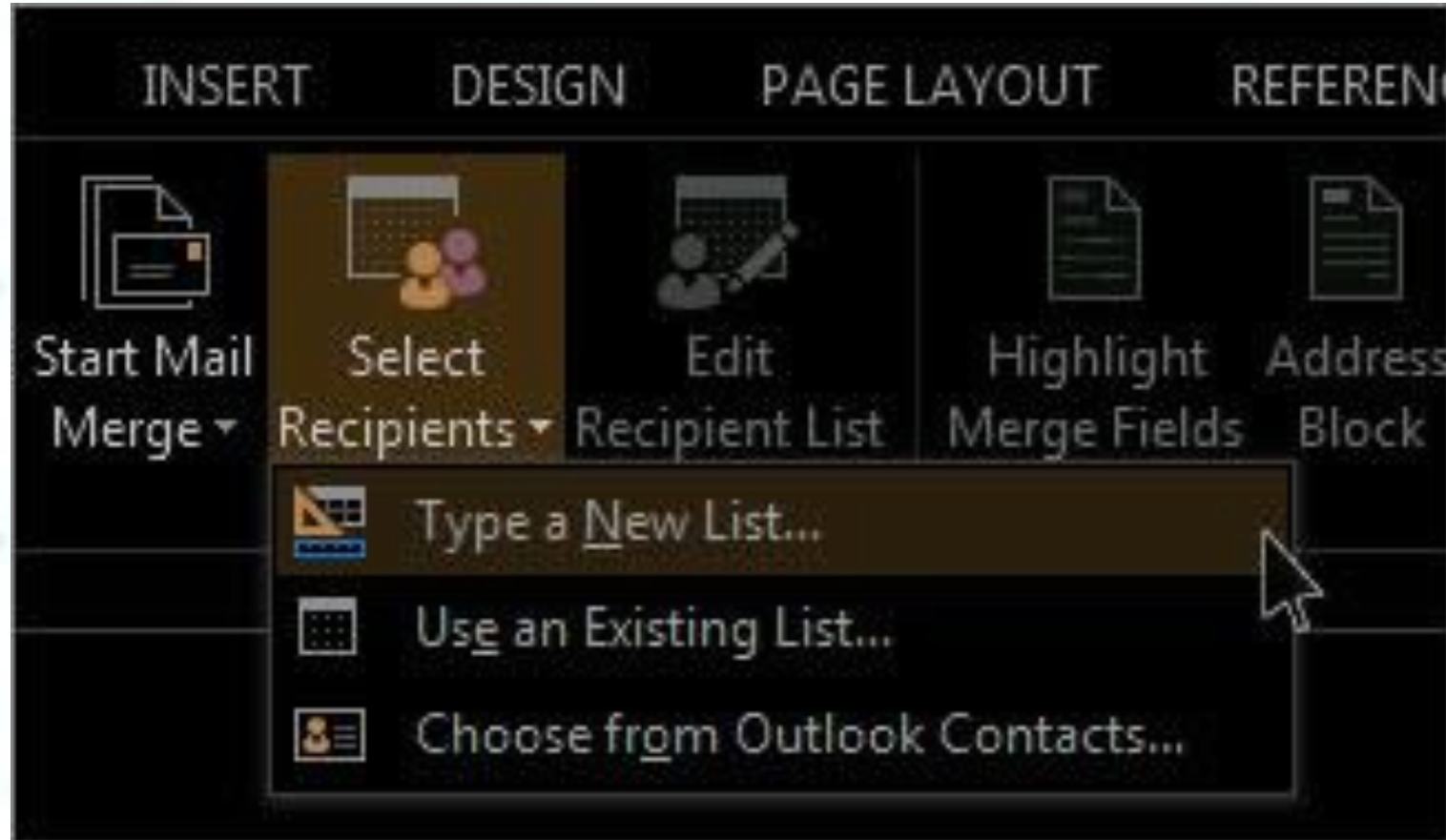
# Mail Merge = MS Word

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# Mail Merge = MS Word

Arora Educator



# Mail Merge = MS Word

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New Address List

Type recipient information in the table. To add more entries, click New Entry.

	Title ▼	First Name ▼	Last Name ▼	Company Name ▼	Address Line 1 ▼
▶	Ms.	Diana	Sacca	Contoso Corp.	1234 Pleasant L...

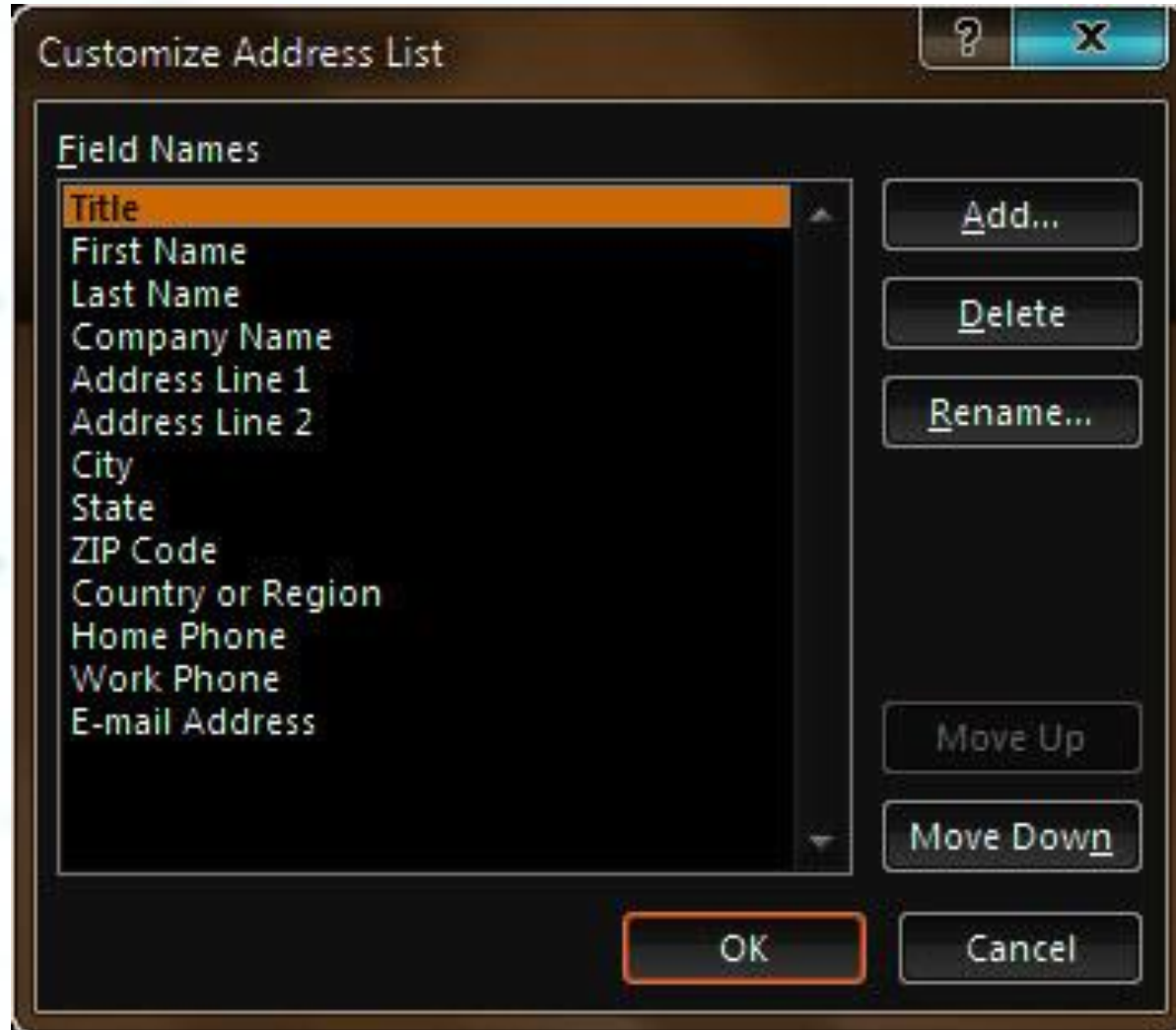
< >

New Entry Find... Delete Entry Customize Columns... OK Cancel



# Mail Merge = MS Word

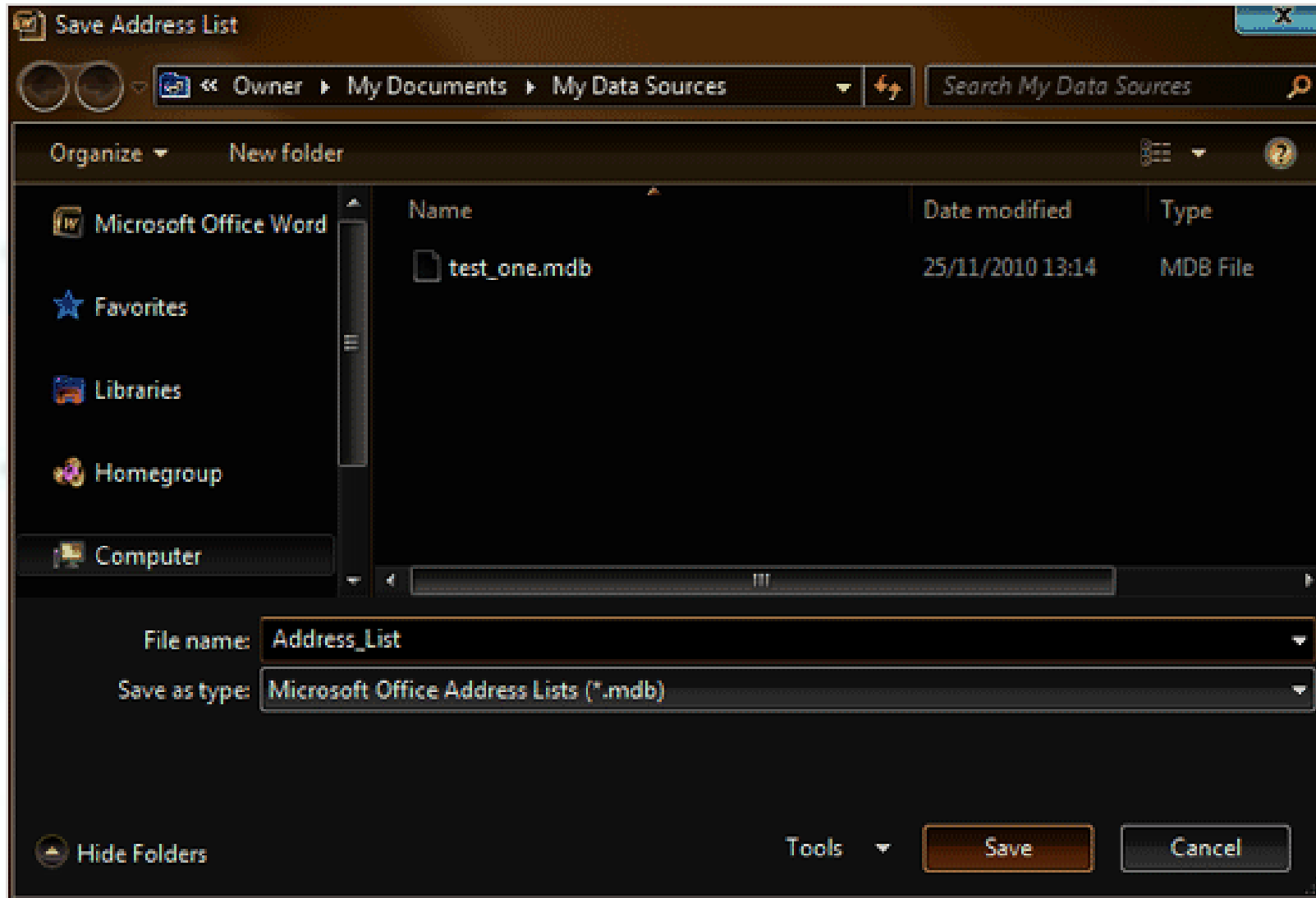
Arora Educator





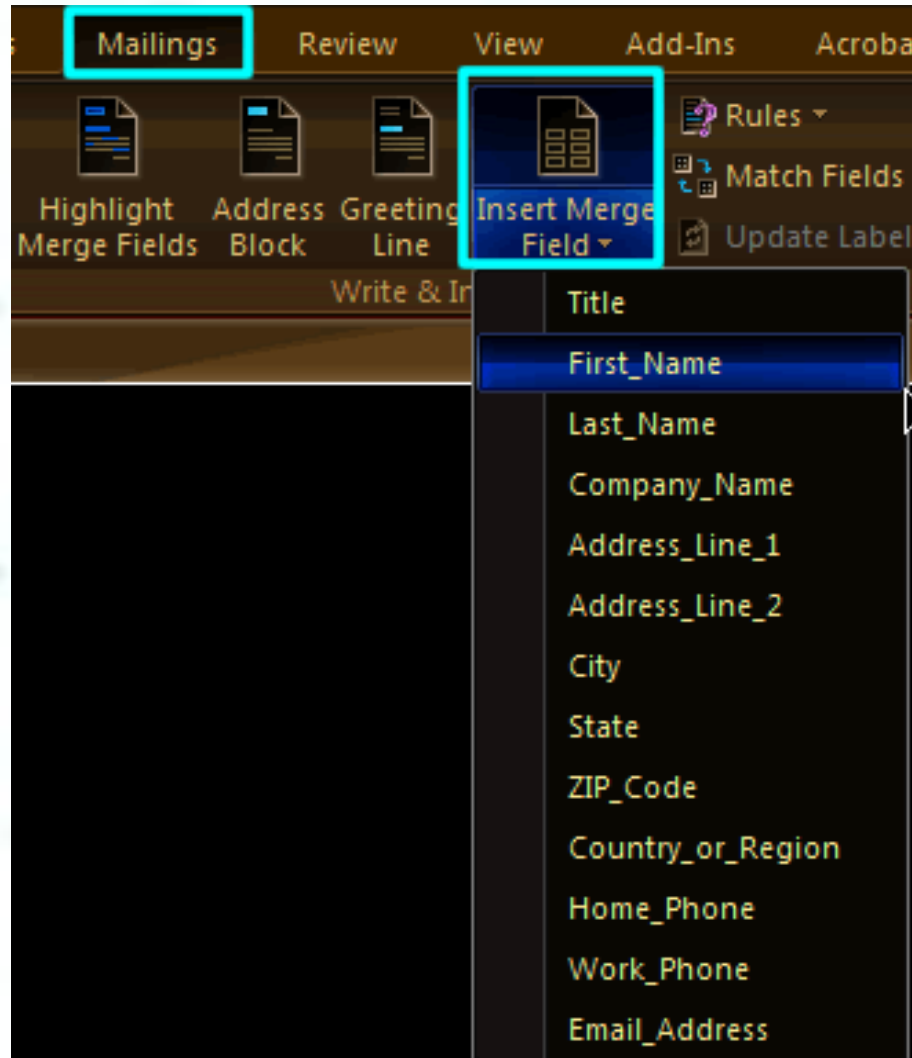
# Mail Merge = MS Word

Arora Educator



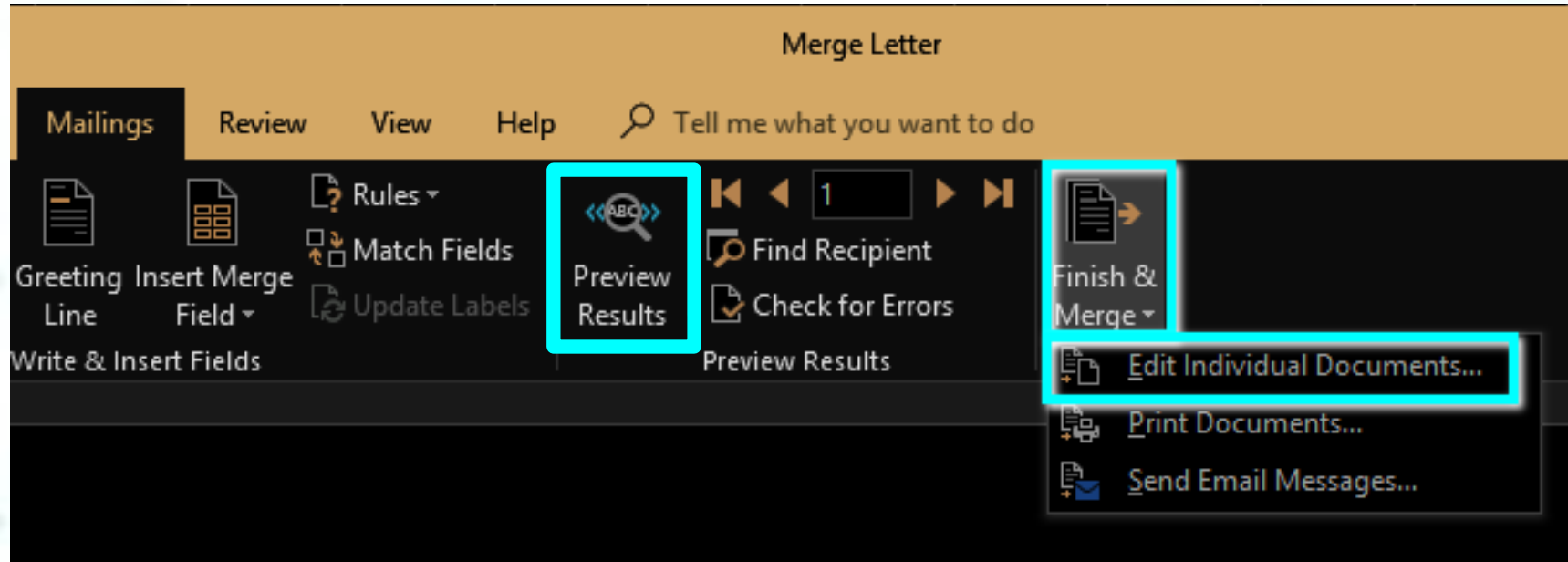
# Mail Merge = MS Word

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# Mail Merge = MS Word

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# Mail Merge

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1. Used to = send a similar letter or document to multiple recipients
2. Automates the process of sending = bulk mail to customers, subscribers or general individuals.
3. Mail merge works with two documents =
  - ✓ Data File (Database)
  - ✓ Letter Template (Word Document)

# MS Office

Arora Educator



Excel



OneNote



Outlook



Word



PowerPoint

# MS Word

Arora Educator



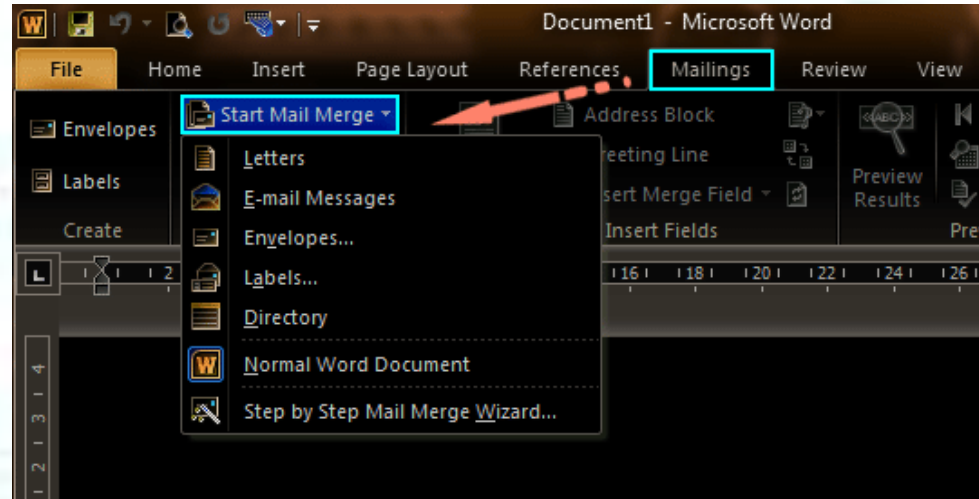
W

# Q.1. What tab in MS Word you'll use to access Mail Merge options.?

**Arora Educator**



- 1) Home tab
- 2) Insert tab
- 3) References tab
- 4) Mailings tab



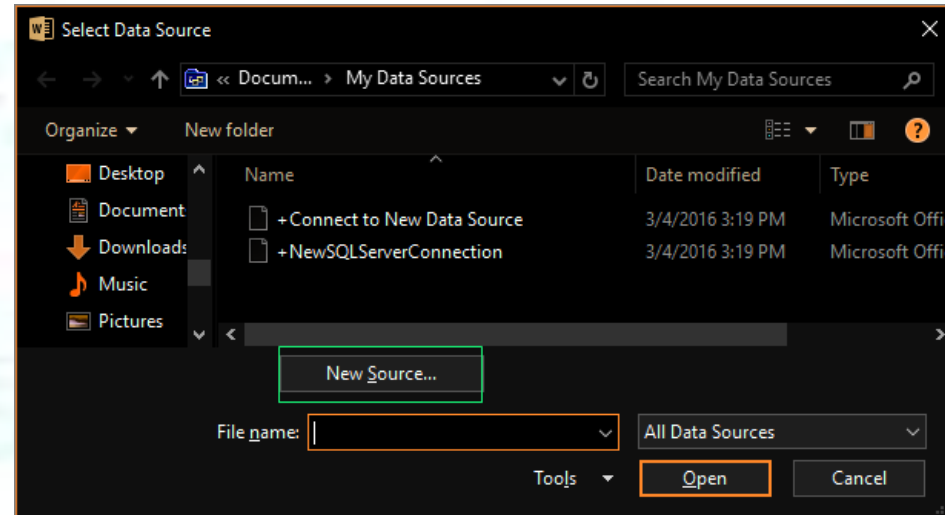


**Q.2. Mail merge is the process of combining document design with a list to create multiple copies of document for each entry in the list.  
The list is called.?**

**Arora Educator**



- 1) Main Document**
- 2) Data Source**
- 3) Form Label**
- 4) Database**



**Q.3. The button temporarily merges your main document and data source so that you can view and test.?**

**Arora Educator**



- 1) Merge to PDF**
- 2) Finish & Merge**
- 3) Insert Merge Field**
- 4) Preview Results**

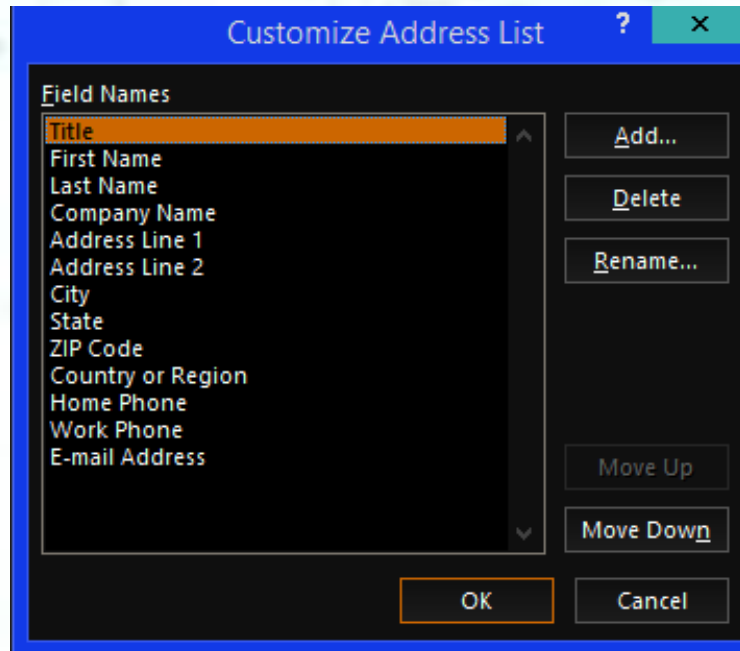


# Q.4. Which of the following is not a default field name.?

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- 1) Last Name
- 2) City
- 3) E-mail Address
- 4) Social Security Number

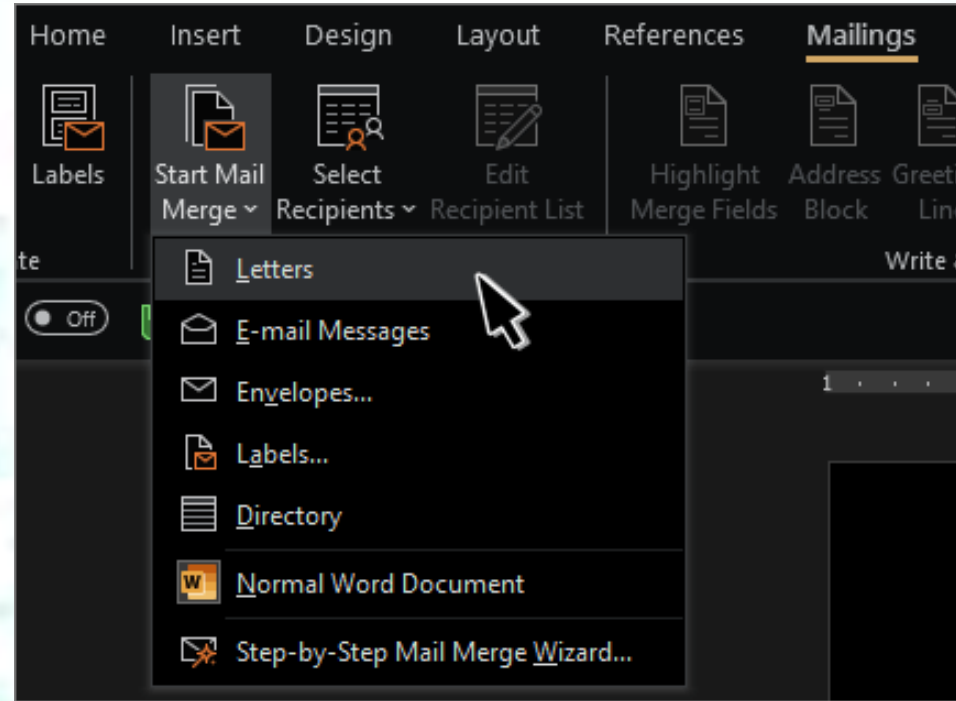


**Q.5. Which of the following is not a default document type for a mail merge.?**

**Arora Educator**



- 1) Letters
- 2) Envelopes
- 3) Memos
- 4) Directory

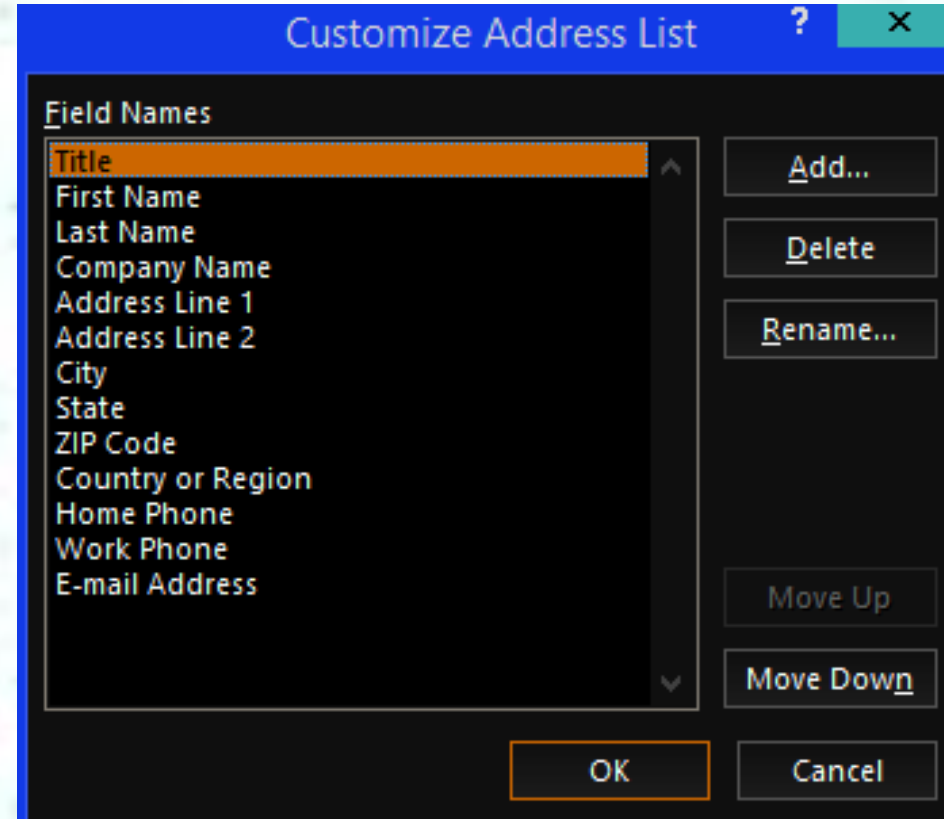


**Q.6. What is the name of the column heading for each category in a data source.?**

**Arora Educator**

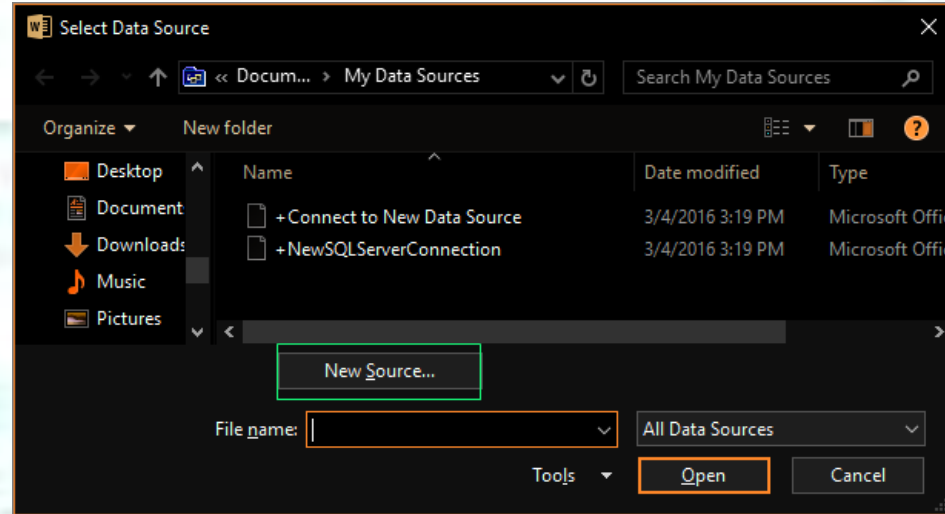


- 1) Data field
- 2) Field
- 3) Field name
- 4) Record



**Q.7. A \_\_\_\_\_ is a set of mailing addresses in the form of a rows and columns generally called database.? Arora Educator**

- 1) Data Source**
- 2) Document**
- 3) Letter**
- 4) Presentation**





**Q.8. In which of the following 'mail merge' is a function.?**

**Arora Educator**



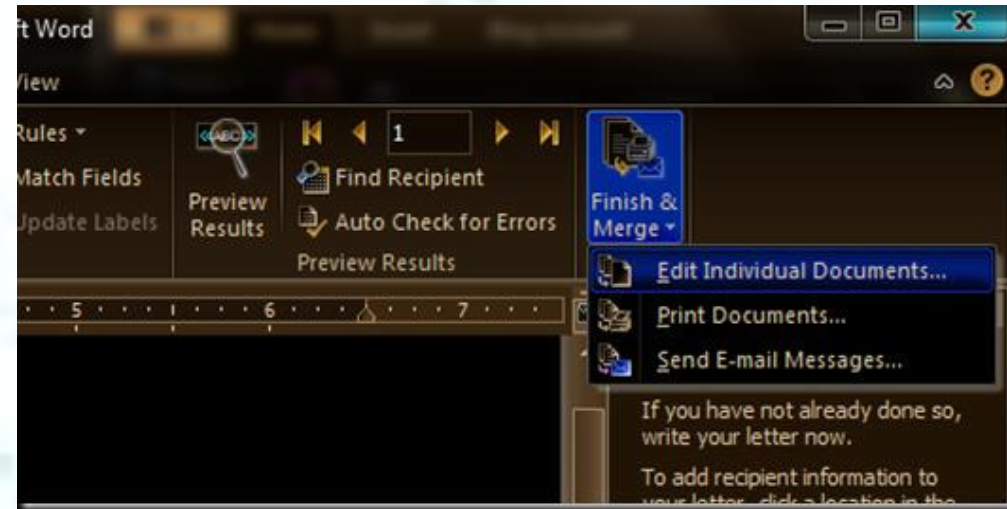
- 1) ms word**
- 2) ms excel**
- 3) ms power point**
- 4) ms access**





**Q.9. Last step in Mail Merge is.?**

- 1) Preview Results**
- 2) Check for Errors**
- 3) Select Recipients**
- 4) Finish & Merge**

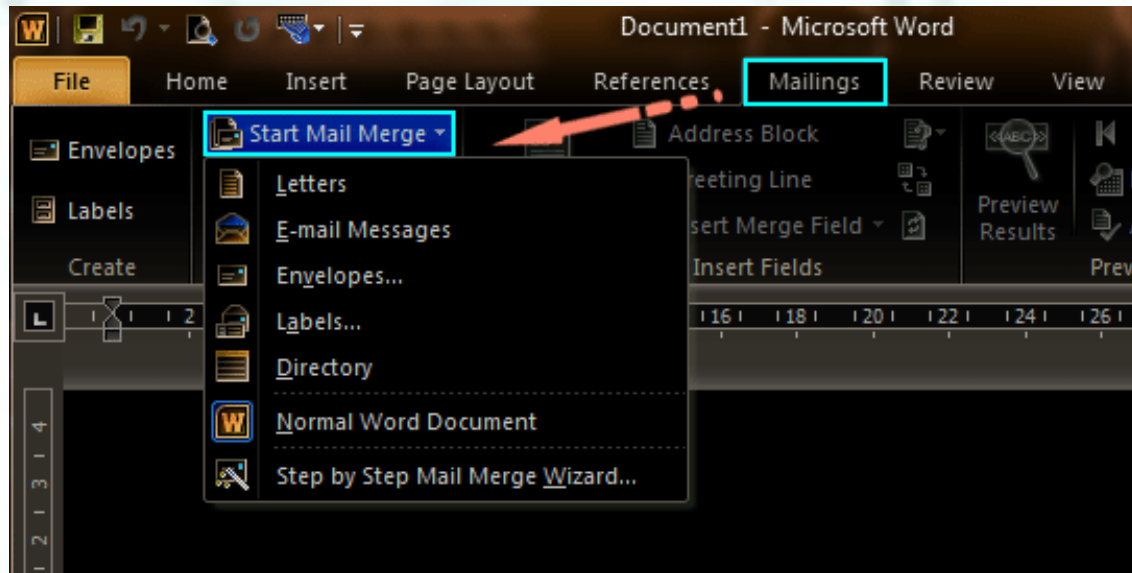


**Q.10. Letter, E-mail messages, Envelopes, Labels comes under which tab in Mail Merge?**

**Arora Educator**



- 1) Start Mail Merge**
- 2) Select Recipients**
- 3) Edit Recipients**
- 4) Finish & Merge**

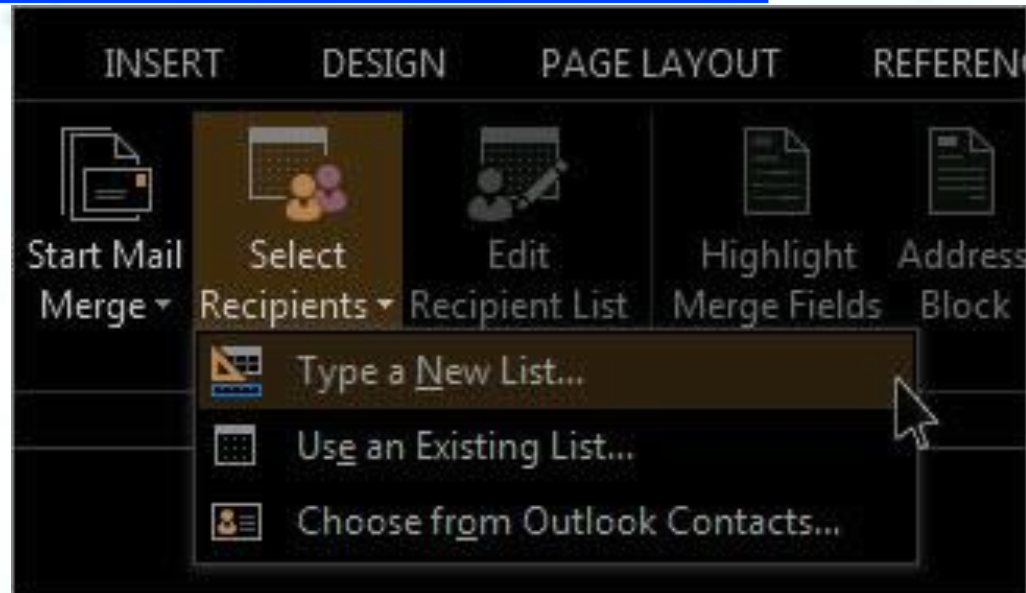


**Q.11. Which of the following option is available under Select Recipients List in Mail Merge.?**

**Arora Educator**



- 1) Type a New List
- 2) Use an Existing List
- 3) Choose from Outlook Contacts
- 4) All of these



# MS Word MCQ's

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W



**Q.1. The process of removing unwanted part of an image is called.?**

- 1) Hiding**
- 2) Bordering**
- 3) Cropping**
- 4) Cutting**
- 5) All of these**



**Q.2. The space left between the margin and the start of a paragraph is called.?**

- 1) Spacing**
- 2) Gutter**
- 3) Indentation**
- 4) Alignment**
- 5) All of these**





**Q.3. To change line height to 1.5 we use shortcut key.?**

- 1) Ctrl + 1**
- 2) Ctrl + 2**
- 3) Ctrl + 3**
- 4) Ctrl + 5**
- 5) None of these**





**Q.4. Which item appears dimly behind the main body text.?**

- 1) Water Color**
- 2) Background**
- 3) Watermark**
- 4) Back Color**
- 5) None of these**



**Q.5. Which enable us to send the same letter to different persons .?**

- 1) Macros**
- 2) Template**
- 3) Mail Merge**
- 4) All of these**
- 5) None of these**



**Q.6. What is Gutter Margin.?**

- 1) Left Margin**
- 2) Right Margin**
- 3) Margin added at binding side of page when printing**
- 4) Margin added outside page when printing**
- 5) None of these**



**Q.7. Which of the following are word processing software.?**

- 1) WordPerfect**
- 2) Wordpad**
- 3) MS Word**
- 4) All of these**
- 5) None of thee**



**Q.8. Which file starts MS Word.?**

- 1) Winword.exe**
- 2) Word.exe**
- 3) Msword.exe**
- 4) Word356.exe**
- 5) None of these**



**Q.9. Which of the following Is best for quick copy operation.?**

- 1) Copy and Paste**
- 2) Windows Clipboard**
- 3) Drag and Drop**
- 4) Auto Text**
- 5) None of these**



**Q.10. Which of the following is not a type of page margin.?**

- 1) Left**
- 2) Right**
- 3) Center**
- 4) Top**
- 5) None of these**





**Q.11. Which do you press to force a page break.?**

- 1) CTRL+ALT**
- 2) CTRL+ break**
- 3) CTRL+ Enter**
- 4) Alt + Shift**
- 5) None of these**



**Q.12. Superscript, subscript, outline, emboss, engrave are known as.?**

- 1) font style**
- 2) font effects**
- 3) word art**
- 4) text effects**
- 5) None of these**



**Q.13. Which operation you will perform if you need to move a block of text.?**

- 1) Copy and Paste**
- 2) Cut and Paste**
- 3) Paste and Delete**
- 4) Paste and Cut**
- 5) None of these**



**Q.14. What is the shortcut key for "Find and Replace" dialog box.?**

- 1) Ctrl + F**
- 2) Ctrl + R**
- 3) Ctrl + H**
- 4) Ctrl+ Shift + F**
- 5) None of these**



**Q.15. What is the default font used in MS Word document.?**

**1) Times New Roman**

**2) Arial**

**3) Algerian**

**4) Bold**

**5) None of these**



**Q.16. What is the shortcut key to Close Active Document In Microsoft Word.?**

**1) Ctrl + F4**

**2) Shift + F**

**3) Ctrl +Shift + F4**

**4) Ctrl + D**

**5) None of these**



**Q.17. Which of the following function key activates the speller.?**

**1) F5**

**2) F7**

**3) F9**

**4) Shift +F7**

**5) None of these**





**Q.18. Which of the following is not a font style.?**

- 1) Bold**
- 2) Italics**
- 3) Regular**
- 4) Superscript**
- 5) None of these**



**Q.19. What is the blank space outside the printing area on a page.?**

- 1) Clipart**
- 2) Margins**
- 3) Header**
- 4) Footer**
- 5) All of these**



**Q.20. Which of the following is an example of page orientation.?**

- 1) Landscape**
- 2) Subscript**
- 3) Superscript**
- 4) A4**
- 5) All of these**



**Q.21. Press \_\_\_\_\_ to open the help window in MS word document.?**

**1) F1**

**2) F2**

**3) F9**

**4) F11**

**5) All of these**



**Q.22. Which bar shows the current position as far the text goes.?**

- 1) Title bar**
- 2) Menu bar**
- 3) Scroll bar**
- 4) Status bar**
- 5) All of these**



**Q.23. Which is the default alignment in word.?**

- 1) Left**
- 2) Right**
- 3) Centre**
- 4) Justify**
- 5) None of these**



**Q.24. Portrait and Landscape are.?**

- 1) Paper size**
- 2) Page layout**
- 3) Page orientation**
- 4) Page margin**
- 5) All of these**





**Q.25. By default, tab stops move \_\_\_\_ space.?**

**1) 0.01"**

**2) 0.05"**

**3) 0.10"**

**4) 0.50"**

**5) None of these**

**By default, Word has left tab stops set at every half-inch**



**Q.26. In drop cap option maximum lines can be set up is.?**

**1) 03**

**2) 05**

**3) 08**

**4) 10**

**5) All of these**



**Q.27. Which tool can be opted for a synonym word in a document.?**

- 1) Auto text**
- 2) Replace**
- 3) Thesaurus**
- 4) Restore**
- 5) All of these**



**Q.28. Which is the function button for spelling and grammar.?**

**1) F3**

**2) F5**

**3) F7**

**4) F9**

**5) None of these**



**Q.29. Auto correct is the option to replace \_\_\_\_\_ words.?**

- 1) Abbreviated**
- 2) Misspelled**
- 3) Lengthy**
- 4) Raised**
- 5) All of these**



**Q.30. What is the maximum number of columns in a table in word.?**

**1) 43**

**2) 53**

**3) 63**

**4) 73**

**5) All of these**



**Q.31. It is used to reduce or enlarge the print.?**

- 1) Landscape**
- 2) Portrait**
- 3) Superscript**
- 4) Scaling**
- 5) All of these**





**Q.32. Which command is used to restore a sentence erased just now.?**

- 1) Undo**
- 2) Redo**
- 3) Add**
- 4) Insert**
- 5) All of these**



**Q.33. This margin feature helps you format margins for back to back printing.?**

- 1) Gutter**
- 2) Mirror**
- 3) Top**
- 4) Bottom**
- 5) All of these**



**Q.34. Pick out the odd one from the following.?**

- 1) 1 line space**
- 2) 1.5 line space**
- 3) 2 line space**
- 4) 2.5 line space**



**Q.35. The minimum number of rows and columns in MS Word document is.?**

**1) 1 and 1**

**2) 2 and 1**

**3) 1 and 2**

**4) 2 and 2**

**5) None of these**



**Q.36. How many columns can you insert in a word document in maximum.?**

**1) 40**

**2) 63**

**3) 50**

**4) 55**

**5) None of these**



**Q.37. What is the smallest and largest font size available in Font Size tool on formatting toolbar.?**

**1) 8 and 72**

**2) 8 and 68**

**3) 6 and 72**

**4) 6 and 68**

**5) None of these**



**Q.38. A character that is raised and smaller above the baseline is known as.?**

- 1) Raised**
- 2) Outlined**
- 3) Capscript**
- 4) Superscript**
- 5) All of these**





**Q.39. Selecting text means, selecting.?**

- 1) a word**
- 2) an entire sentence**
- 3) whole document**
- 4) All of these**
- 5) None of these**



**Q.40. MS-Word automatically moves the text to the next line when it reaches the right edge of the screen and is called.?**

- 1) Carriage Return**
- 2) Enter**
- 3) Word Wrap**
- 4) All of these**
- 5) None of these**



**Q.41. Using Find command in Word, we can search.?**

- 1) Characters**
- 2) Formats**
- 3) Symbols**
- 4) All of these**



**Q.42. In MS-Word, for what does ruler help.?**

- 1) to set tabs**
- 2) to set indents**
- 3) to change page margins**
- 4) All of these**



**Q.43. By default, on which page the header or the footer is printed.?**

- 1) on first page**
- 2) on alternate page**
- 3) on every page**
- 4) All of these**



**Q.44. Which menu in MSWord can be used to change character size and typeface.?**

- 1) View**
- 2) Tools**
- 3) Format**
- 4) Data**



**Q.45. Which key should be pressed to start a new paragraph in MS-Word.?**

**1) Down Cursor Key**

**2) Enter Key**

**3) Shift + Enter**

**4) Ctrl + Enter**





**Q.46. Which bar is usually located below that Title Bar that provides categorized options.?**

- 1) Menu bar**
- 2) Status Bar**
- 3) Tool bar**
- 4) Scroll bar**



**Q.47. In Microsoft Word shortcut key CTRL+W is used for.?**

- 1) Open the Print dialog box**
- 2) Update the current Web page**
- 3) Close the current window**
- 4) None of these**



**Q.48. In MS-Word shortcut SHIFT+DELETE is used to.?**

- 1) Delete the selected item permanently without placing the item in the Recycle Bin**
- 2) Copy the selected item**
- 3) Rename the selected item**
- 4) Create a shortcut to the selected item**



## Q.49. Macros are:..?

- 1) Small programs created in MS-Word to automate repetitive tasks by using VBA**
- 2) Small add-on programs that are installed afterwards if you need them**
- 3) Programming language that you can use to customize MS-Word**
- 4) Large tools in Word such as mail merge**



**Q.50. Which of the following is not valid version of MS Office?**

- 1) Office 2003
- 2) Office Vista
- 3) Office 2007
- 4) None of these



## Q.51. Why Drop Caps are used in document?

- 1) To drop all the capital letters
- 2) To automatically begin each paragraph with capital letter
- 3) To begin a paragraph with a large dropped initial capital letter
- 4) None of These



**Q.52. If you want to keep track of different editions of a document which features will you use?**

- 1) Editions
- 2) Versions
- 3) Track Change
- 4) All of above





**Q.53. What is the maximum font size you can apply for any character?**

**1) 163**

**2) 1638**

**3) 16038**

**4) None of these**



**Q.54. A character that is raised and smaller above the baseline is known as?**

- 1) Superscript**
- 2) Raised**
- 3) Outlined**
- 4) Subscript**



**Q.55. In Word, the mailing list is known as the ?**

- 1) Data source**
- 2) Sheet**
- 3) Data sheet**
- 4) Source**



**Q.56. What is the default left margin in Word 2003 document.?**

1) 1

2) 1.25

3) 1.5

4) 2



**Q.57. What is the default left margin in Word 2007 document.?**

- 1) 1**
- 2) 1.25**
- 3) 1.5**
- 4) 2**



**Q.58. Ctrl + G is used to.?**

- 1) Open Paragraph Dialog box activating Goto Tab**
- 2) Open Page Setup Dialog box activating Goto Tab**
- 3) Open Find and Replace Dialog box with activating Goto Tab**
- 4) Open Goto Dialog box**



**Q.59. Which of the following is true regarding page Orientation of a Document.?**

- 1) Page Orientation can be changed at any time**
- 2) Page Orientation of document determines by printer**
- 3) Page Orientation must be set before start typing**
- 4) Page Orientation of a document cannot be changed.**





**Q.60. Ctrl + Q is used to.?**

- 1) Remove Paragraph formatting (Line Space and Paragraph Space)**
- 2) Close Word Application without saving Document**
- 3) Print Whole Document without confirmation**
- 4) Does nothing**



**Q.61. What is the shortcut-key for manual line break.?**

- 1) CTRL + Enter**
- 2) Alt + Enter**
- 3) Shift + Enter**
- 4) Space + Enter**



**Q.62. Word has Web authoring tools allow you to incorporate \_\_\_\_\_ on Web pages.?**

- 1) Bullets**
- 2) Hyperlinks**
- 3) Sounds**
- 4) All of the above**



**Q.63. In Word 2007 the Zoom is placed on.?**

- 1) Scroll Bar**
- 2) Menu Bar**
- 3) Status bar**
- 4) Tool Bar**



**Q.64. What is the default font used in MS Word 2016 document.?**

- 1) Times New Roman**
- 2) Arial**
- 3) Algerian**
- 4) Calibri**



**Q.65. Superscript, subscript, outline, emboss, engrave are known as.?**

- 1) Font effects**
- 2) Text effects**
- 3) Font styles**
- 4) Word art**



**Q.66. What is the shortcut key you can press to create a copyright symbol.?**

- 1) Alt + Ctrl + C**
- 2) Alt + C**
- 3) Ctrl + C**
- 4) Ctrl + Shift + C**





**Q.67. How can you make the selected character superscripted.?**

**1) Ctrl =**

**2) Ctrl Shift +**

**3) Alt Ctrl Shift =**

**4) None of these**



**Q.68. What does Ctrl = key effect.?**

**1) Superscript**

**2) Subscript**

**3) All Caps**

**4) Shadow**



**Q.69. How can you increase the font size of selected text by one point every time.?**

- 1) By pressing Ctrl + ]**
- 2) By pressing Ctrl + [**
- 3) By pressing Ctrl + }**
- 4) By pressing Ctrl + {**



**Q.70. Which key is used to increase left indent.?**

- 1) Ctrl + I
- 2) Ctrl + M
- 3) Alt + I
- 4) F10



**Q.71. The ability to combine name and addresses with a standard document is called.?**

- 1) Document formatting**
- 2) Database management**
- 3) Mail merge**
- 4) Form letters**



**Q.72. AutoCorrect was originally designed to replace \_\_\_\_\_ words as you type.?**

- 1) Short repetitive**
- 2) Grammatically incorrect**
- 3) Misspelled**
- 4) None of the above**



**Q.73. The Word Count command on the Tools menu displays the number of words as well as the number of \_\_\_\_\_ in the current document.?**

- 1) Lines**
- 2) Characters**
- 3) Paragraphs**
- 4) All of the above**





## Q.74. The word wrap feature.?

- 1) Automatically moves text to the next line when necessary
- 2) Appears at the bottom of the document
- 3) Allows you to type over text
- 4) Is the short horizontal line indicating the end of the document



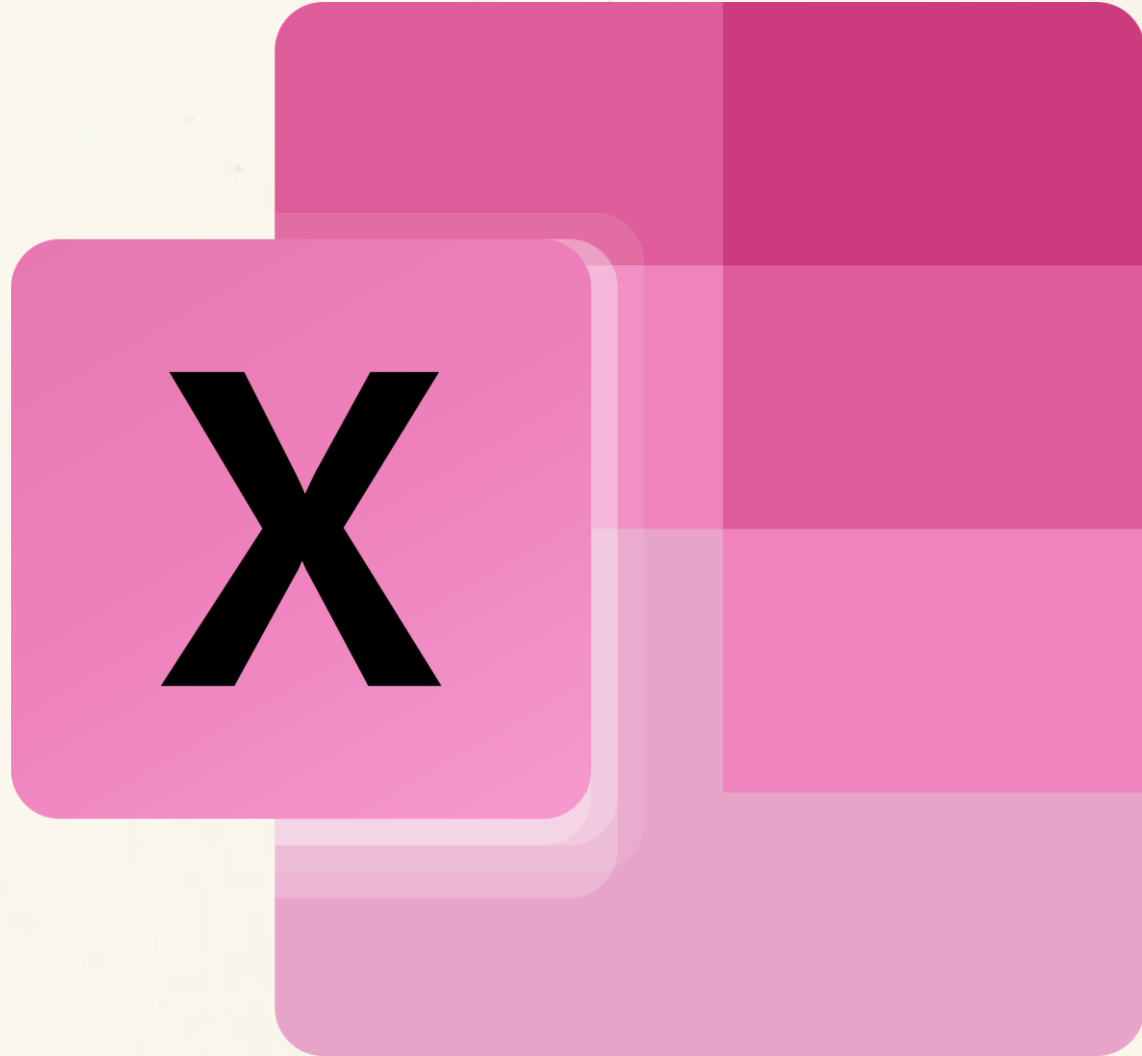
**Q.75. Drop Cap means.?**

- 1) Small Caps**
- 2) Title case**
- 3) All Caps**
- 4) None of above**



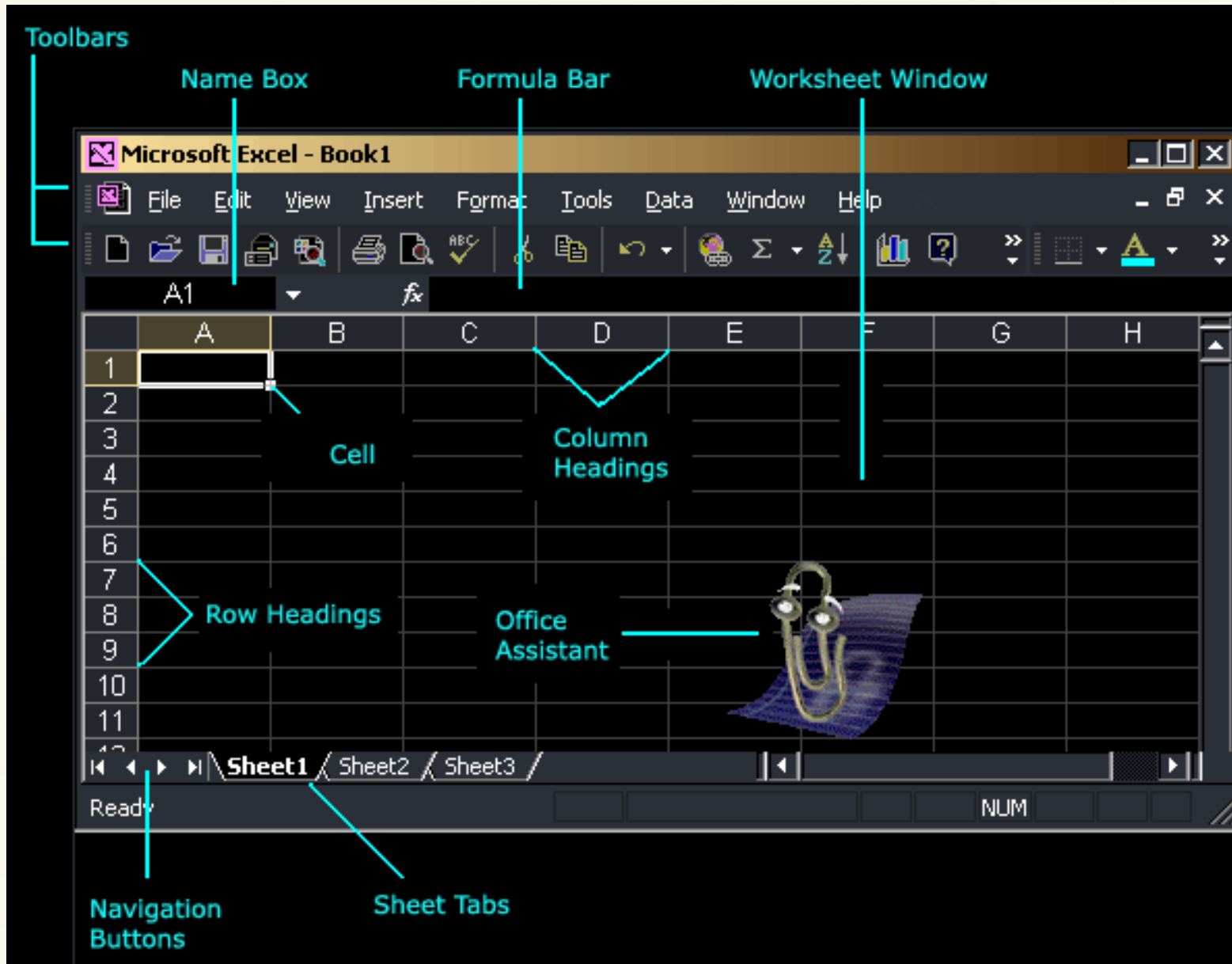
# MS Excel

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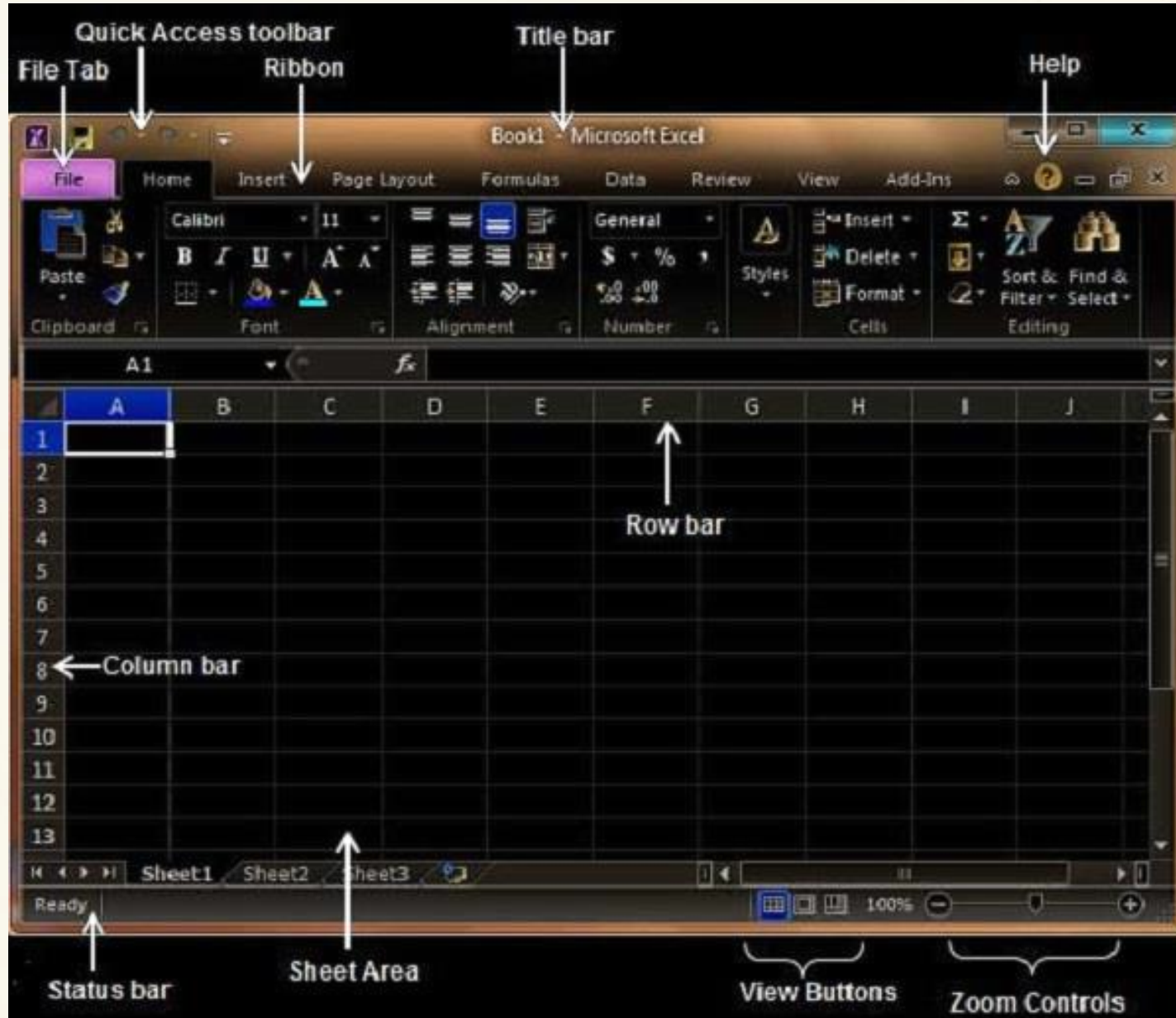
# MS Excel

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# MS Excel

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# **MS Excel = Spreadsheet Software**

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- 1) First Spreadsheet = VisiCalc**
- 2) MS Dos Spreadsheet = Lotus 1-2-3**
- 3) Microsoft = MS Excel**
- 4) Apple = Numbers**
- 5) Google = Google Sheets**
- 6) LibreOffice = OpenOffice.org = Calc**

# MS Excel = Facts

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- 1) **Ctrl + N = Create a new workbook**
- 2) **Ctrl + O = Open an existing workbook**
- 3) **F12 = Open the Save As dialog box**
- 4) **Ctrl + W = Close a workbook**
- 5) **Ctrl + F4 = Close Excel**
- 6) **Shift + F11 = Insert a new worksheet**
- 7) **F11 = Create a bar chart**
- 8) **Ctrl + Tab = Switch between open workbooks**
- 9) **Shift + F3 = Insert a function**
- 10) **Alt + Shift + F1 = Insert Worksheet**



# **MS Excel = Facts**

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- 11) Shift + Spacebar = Select the entire row**
- 12) Ctrl + Spacebar = Select the entire column**
- 13) Ctrl + Shift + Space = Select the entire worksheet**
- 14) F2 = Edit a cell**
- 15) Ctrl + 9 = Hide the selected rows**
- 16) Ctrl + 0 = Hide the selected columns**

# MS Excel = Facts

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- 17) Ctrl + End = Move to the last cell on a worksheet
- 18) Ctrl + Home = Move to the beginning of a worksheet
- 19) Current Time = Ctrl Shift ;
- 20) Current Date = Ctrl ;
- 21) Columns = Alphabets
- 22) Rows = Numbers

# **MS Excel = Facts**

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**23) Row & Column meet = Cell**

**24) Collection of Worksheet = Workbook**

**25) Excel Files = Workbook**

**26) Formula = Formula Bar**

**27) Cell Address = A1 (First Cell)**

**28) Address of Cell = Name Box**

# **MS Excel = Facts**

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**29) Rows (2003) = 65,536**

**30) Columns (2003) = 256**

**31) Rows (2007) = 1048576**

**32) Columns (2007) = 16384**

**33) Formula Start with = (=Sign)**

# **MS Excel = Facts**

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- 34) Extension = .xls/.xlsx**
- 35) Default Worksheet = 3 (2013 & Earlier)**
- 36) Default Worksheet = 1 (2016 & Above)**
- 37) Collection of Cell = Worksheet**
- 38) Smallest Unit of Excel = Cell**

# MS Excel = Facts

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**39) Chart = Chart Wizard**

**40) Row data in Column, Column data in row =  
Transpose**

**41) Comments = Cell Tip**

**42) Concatenation = &**

**43) Remainder = MOD()**

# **MS Excel = Facts**

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- 44) Cell Characters = 32767**
- 45) Minimum Zoom Percentage = 10**
- 46) Maximum Zoom Percentage = 400**
- 47) Default Zoom Percentage = 100**
- 48) Maximum Sheet Added = No Limit/As per size of Memory**
- 49) Chart will you use to compare performance of two employees = Pie Chart**



# **MS Excel = Facts**

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**50) Which function in Excel checks whether a condition is true or not = If**

**51) What type of chart is useful for showing trends or changes over time = Line Chart**

**52) In Excel, which one denoted a range from B1 through E5 = B1:E5**

**53) Free online version of MS excel is known as = Excel for the web**

# MS Excel = Facts

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54) It is a free lightweight version of MS Excel available as part of Office on the web. = Excel for the web

55) A file that contains one or more worksheets to organize data is known as = Workbook

56) In Microsoft Excel spreadsheets, rows are labelled as = 1,2,3

57) In Microsoft Excel spreadsheets, COLUMNS are labelled as = A,B,C

# MS Excel = Facts

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58) In Microsoft Excel spreadsheets, Cells are labelled as =  
A1,B1,C1

59) The \_\_\_ feature of ms excel quickly completes a series of data  
= Auto Fill

60) What type of charts can excel produce = Bar Chart, Pie  
Chart, Line Chart

61) VLOOKUP function used to = Find related records

# Practice Questions =



What is the address of a cell at 13<sup>th</sup> row and 19<sup>th</sup> column in an MS-Excel worksheet ?

किसी MS-Excel वर्कशीट में 13वीं पंक्ति और 19वें स्तंभ की सेल का एड्रेस क्या है ?

(A) S13

(B) M19

(C) T13

(D) H19



**Practice Questions =**

**What is the address of cell at 9 row & 8 column**

**H9**



## Practice Questions =

**What will be the cell address of the cell formed by the intersection of the tenth column and the eighth row?**

**J8**

# Practice Questions =



What is the first character of a cell in MS-Excel if it contains a formula ?

MS-Excel में किसी सेल यदि उसमें फॉर्मूला है, तो पहला कैरेक्टर क्या होता है ?

(A) =

(B) +

(C) -

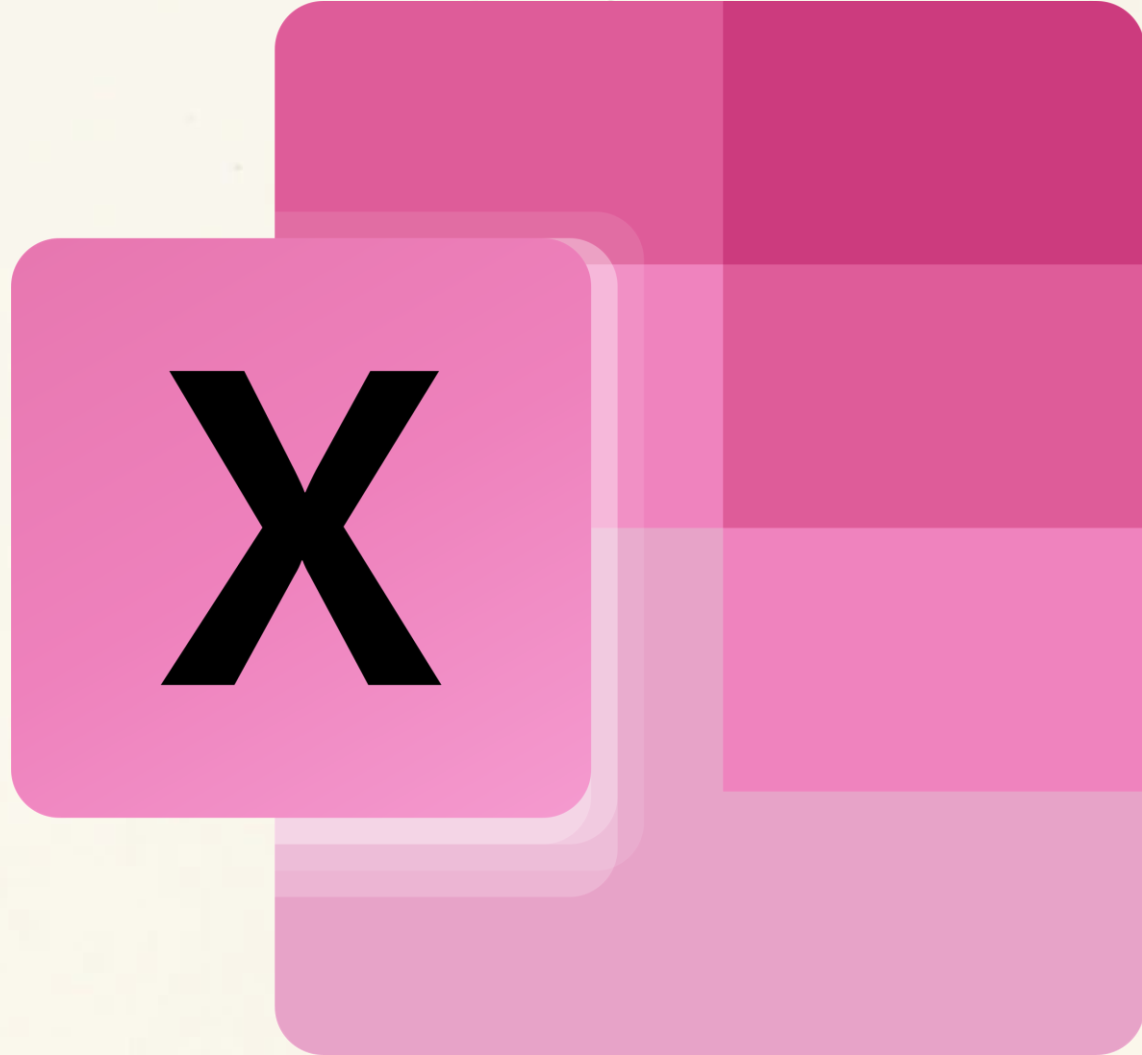
(D) Any of the above / उपरोक्त में से कोई भी





# MS Excel Questions

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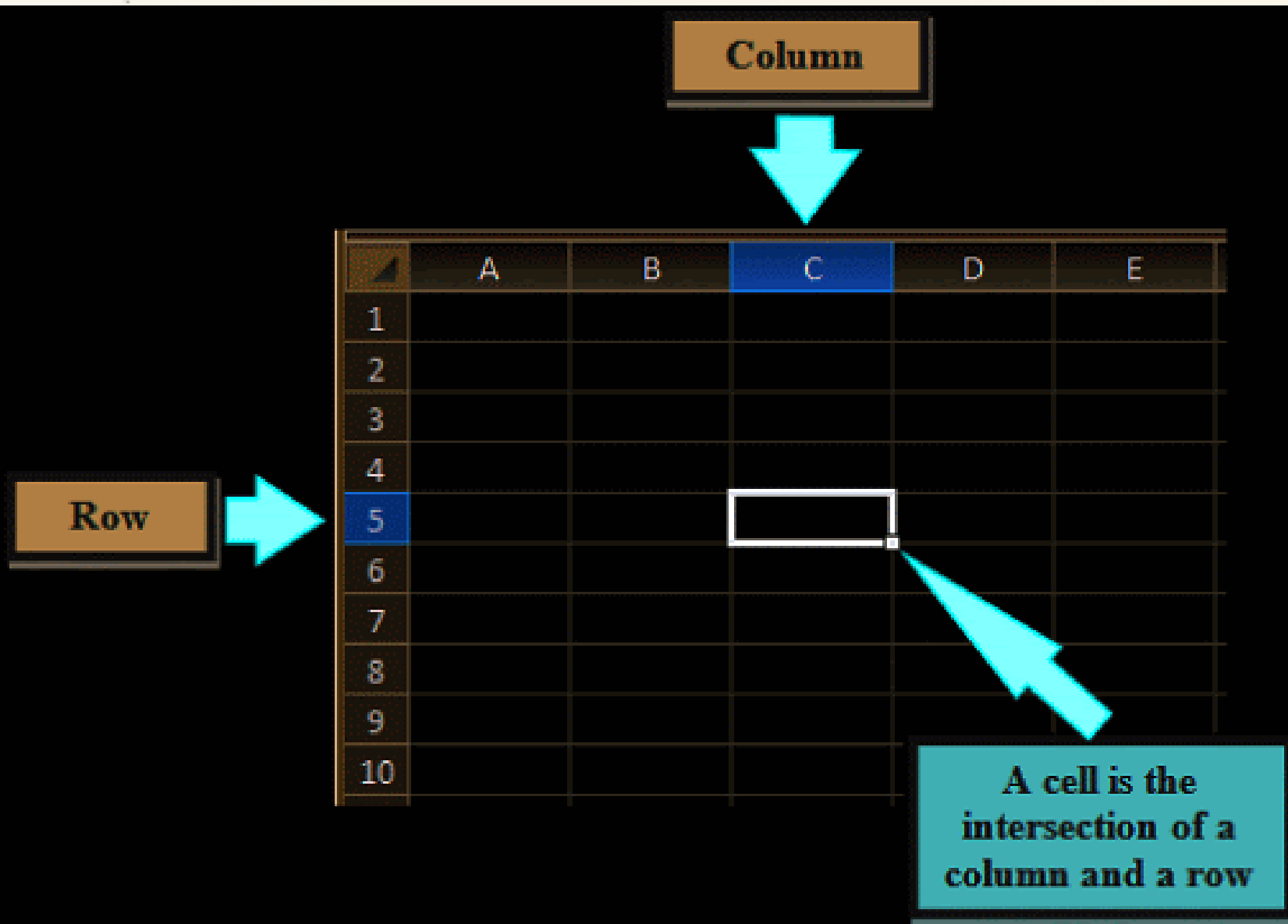


**Q.1. What is the intersection of a column and a row on a worksheet called.?**

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- A. Cell**
- B. Address**
- C. Row**
- D. Column**



## Cell in MS Excel

**Q.2. Which of the following is not a valid data type in Excel.?**

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**A. Values**

**B. Character**

**C. Label**

**D. Formula**

**Q.3. Which toolbar allows you to enter values and formulas.?**

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**A. Title Bar**

**B. Formula Bar**

**C. Menu Bar**

**D. Standard toolbar**



# Formula Bar in Excel

Excel interface showing the Formula Bar and a spreadsheet.

The Formula Bar displays the formula: `=SUM(F2:F9)`.

The spreadsheet data is as follows:

	A	B	C	D	E	F
1	S.No	receipt_id	Item Code	Amount	GST	
2	1	127504425	heron_foods	4.75	1.2	5.95
3	2	125387159	heron_foods	3.07	1.2	4.27
4	3	118531884	heron_foods	30.92		
5	4	115178509	heron_foods	11.29		
6	5	120962192	heron_foods	12.83		
7	6	118427223	poundworld	33.17		
8	7	119727660	poundworld	24.7		
9						
10			Grand Total	131.73		

The ribbon shows the 'View' tab selected, with the 'Formula Bar' checkbox checked.

## Formula Bar

**Q.4. Select the correct option for cell address.?**

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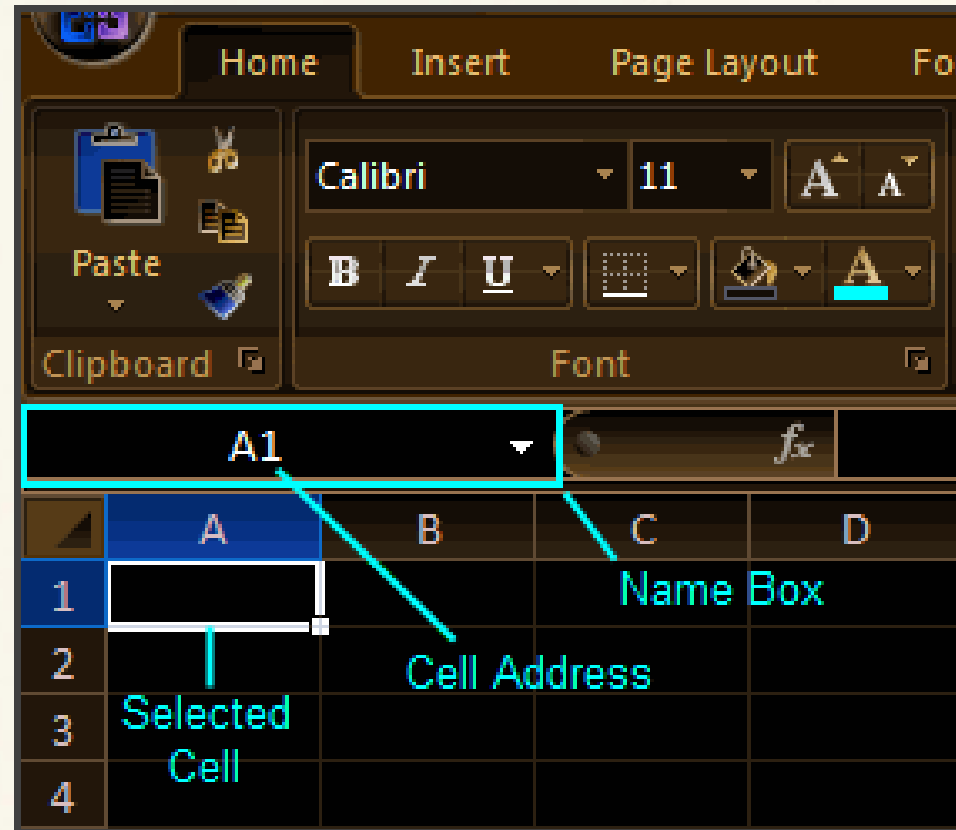


**A. 2512**

**B. A 25**

**C. 911**

**D. 45 Z**





**Q.5. By mistake you delete a record in the sheet. Which command can be used to restore it immediately.?**

**A. Undo**

**B. Cut**

**C. Copy**

**D. Insert**

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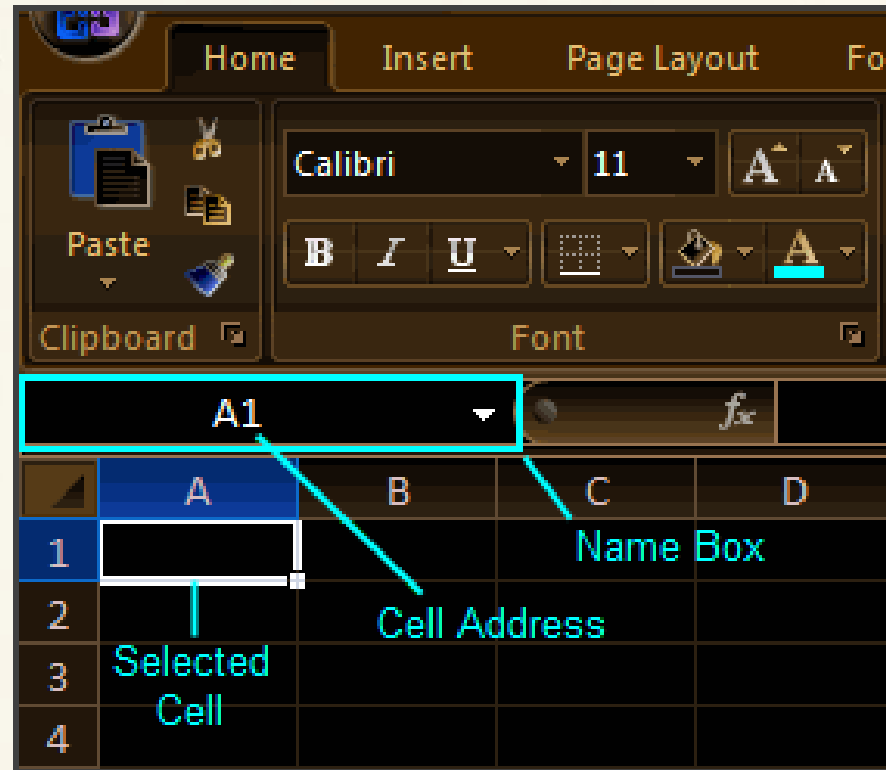
**Q.6. The first cell in Excel worksheet is labeled as.?**

**A. AB**

**B. A1**

**C. Aa**

**D. A4**



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**Q.7. Collection/Grid of columns and rows is called**

**A. Cell**

**B. Worksheet**

**C. Row**

**D. Column**

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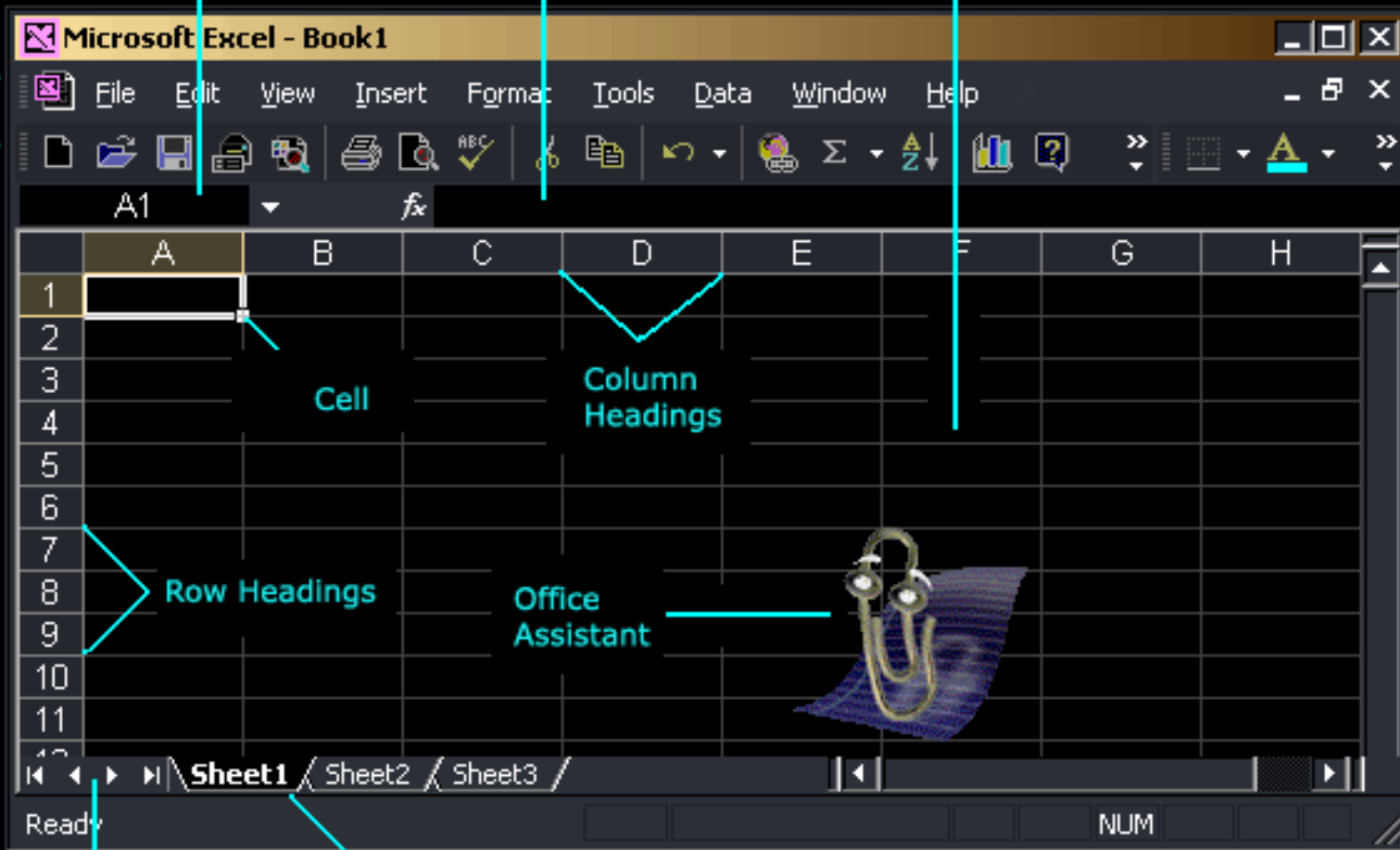


Toolbars

Name Box

Formula Bar

Worksheet Window



Row Headings

Column Headings

Office Assistant

Cell

Navigation Buttons

Sheet Tabs

## Worksheet Window

**Q.8. An Excel workbook is a collection of:**



**A. Worksheet**

**B. Cells**

**C. Charts**

**D. Worksheets**

**Q.9. In order to perform a calculation in a spreadsheet,  
you need to use a:**

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**A. Table**

**B. Formula**

**C. Field**

**D. Label**

**Q.10. What is the basic file of MS Excel?**



- A. Presentation**
- B. Slide**
- C. Bit map**
- D. Workbook**



**Q.11. What is the last column of an Excel 2003 worksheet?**

**A. IV**

**B. AV**

**C. XV**

**D. DV**

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**In older versions of Excel (2003 and prior)  
the last column was IV which is 256  
columns.**

**Q.12. What is the last column of an Excel 2007 worksheet?**

**A. IV**

**B. AV**

**C. XV**

**D. XFD**

	XFB	XFC	XFD

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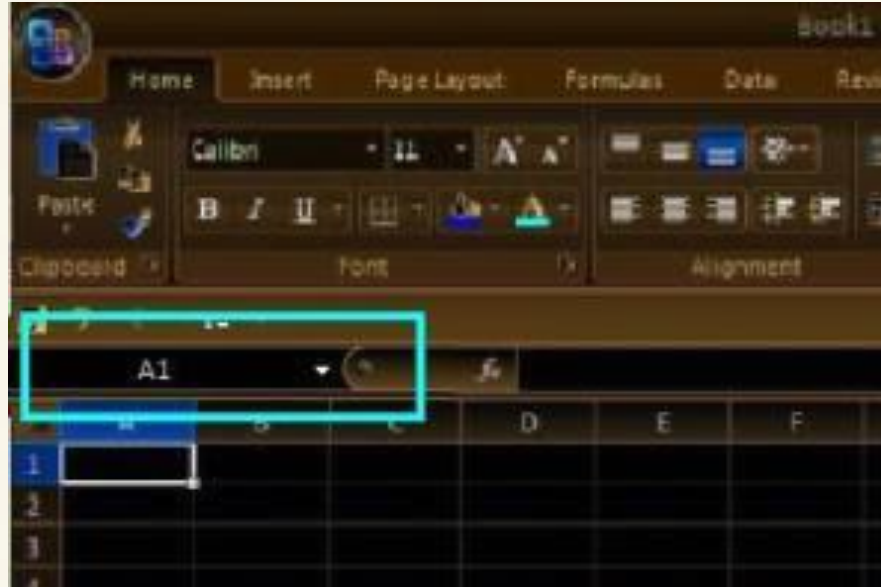
**In the modern versions of Excel this is column XFD, which is 16,384 columns.**

**Q.13. Which component of MS Excel displays the address of the active cell?**

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- A. Formula bar**
- B. Name box**
- C. Row header**
- D. Column header**



**Q.14. How many rows does an MS-Excel 2003 worksheet contain?**

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**A. 65536**

**B. 65535**

**C. 256**

**D. 155**



**Q.15. How many columns does an MS-Excel 2003 worksheet contain?**

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**A. 256**

**B. 126**

**C. 156**

**D. 580**

**Q.16. How many rows does an MS-Excel 2007 worksheet contain?**

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**A. 1048576**

**B. 1048577**

**C. 1048555**

**D. 1048575**



**Q.17. How many columns does an MS-Excel 2007 worksheet contain?**

**Arora Educator**



**A. 16384**

**B. 16385**

**C. 16383**

**D. 16386**





**Q.18. What is a workbook?**

- A. Collection of worksheets**
- B. Collection of excel files**
- C. Collection of cells**
- D. Collection of rows & columns**

**Q.19. In MS Excel a formula should always start with \_\_\_\_\_ sign.?**

**Arora Educator**



**A. +**

**B. -**

**C. =**

**D. x**

B6	:	=SUM(B2:B5)
	A	B
1	Item	Sales
2	Apples	\$750
3	Bananas	\$470
4	Grapes	\$590
5	Lemons	\$550
6	Total:	\$2,360

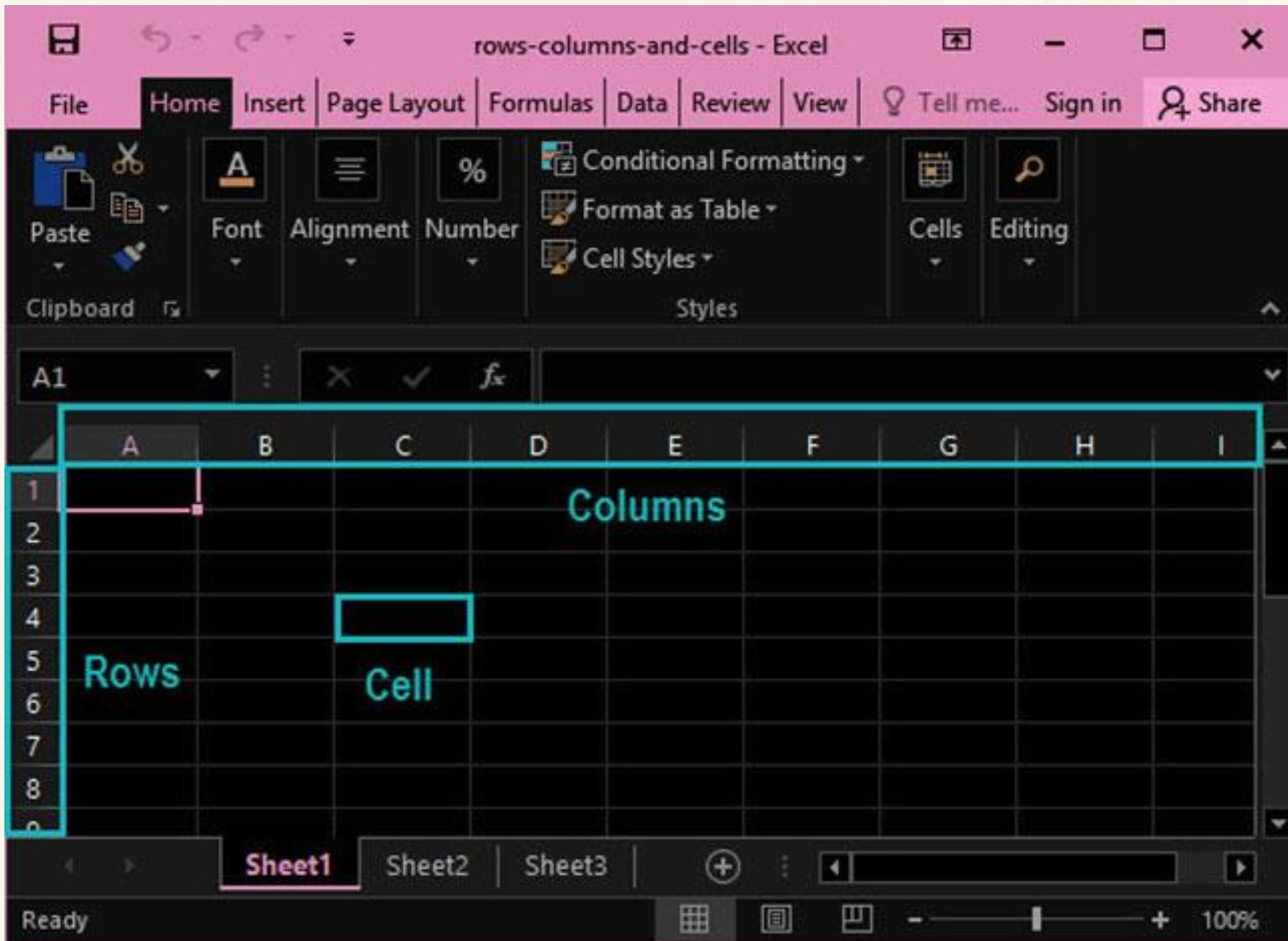
B6	:	=B2+B3+B4+B5
	A	B
1	Item	Sales
2	Apples	\$750
3	Bananas	\$470
4	Grapes	\$590
5	Lemons	\$550
6	Total:	\$2,360

**Q.20. How are columns in excel worksheet labelled.?**

**Arora Educator**



- A. Roman numbers**
- B. Numbers**
- C. English Alphabet**
- D. Symbols**



# Q.21. How are rows in excel worksheet labelled.?

Arora Educator



- A. Alphabets
- B. Worksheet
- C. Column header
- D. Numbers

**Q.22. What is the extension of a MS-Excel file.?**

**Arora Educator**



**A. .EXL**

**B. EXCL**

**C. .XLS**

**D. .XL**

**Q.23. What is the work sheet which is currently in use called.?**

**Arora Educator**



- A. Active cell**
- B. Active work sheet**
- C. Both (a) and (b)**
- D. Neither (a) nor (b)**



**Q.24. Microsoft Excel is a/an \_\_\_\_ program.?**

**Arora Educator**

- A. animation**
- B. word processor**
- C. spreadsheet**
- D. language**



**Q.25. Identify the keyboard shortcut to navigate between different worksheets.?**

**Arora Educator**



**A. Shift + Pg up**

**B. Ctrl + Pg up**

**C. Alt+ Pg down**

**D. Click on the desired sheet**

**Q.26. Which of these is/are the data types of MS-Excel.?**

**Arora Educator**



**A. Numbers**

**B. Text**

**C. Formula**

**D. All of these**

**Q.27. What does a spreadsheet contain.?** **Arora Educator**



**A. Columns**

**B. Rows**

**C. Cells**

**D. All of these**

**Q.28. What is the smallest unit of worksheet in Excel.?**

**Arora Educator**



**A. Columns**

**B. Rows**

**C. Cell**

**D. Range**

**Q.29. How many sheets does an excel window display by default.?**

**Arora Educator**

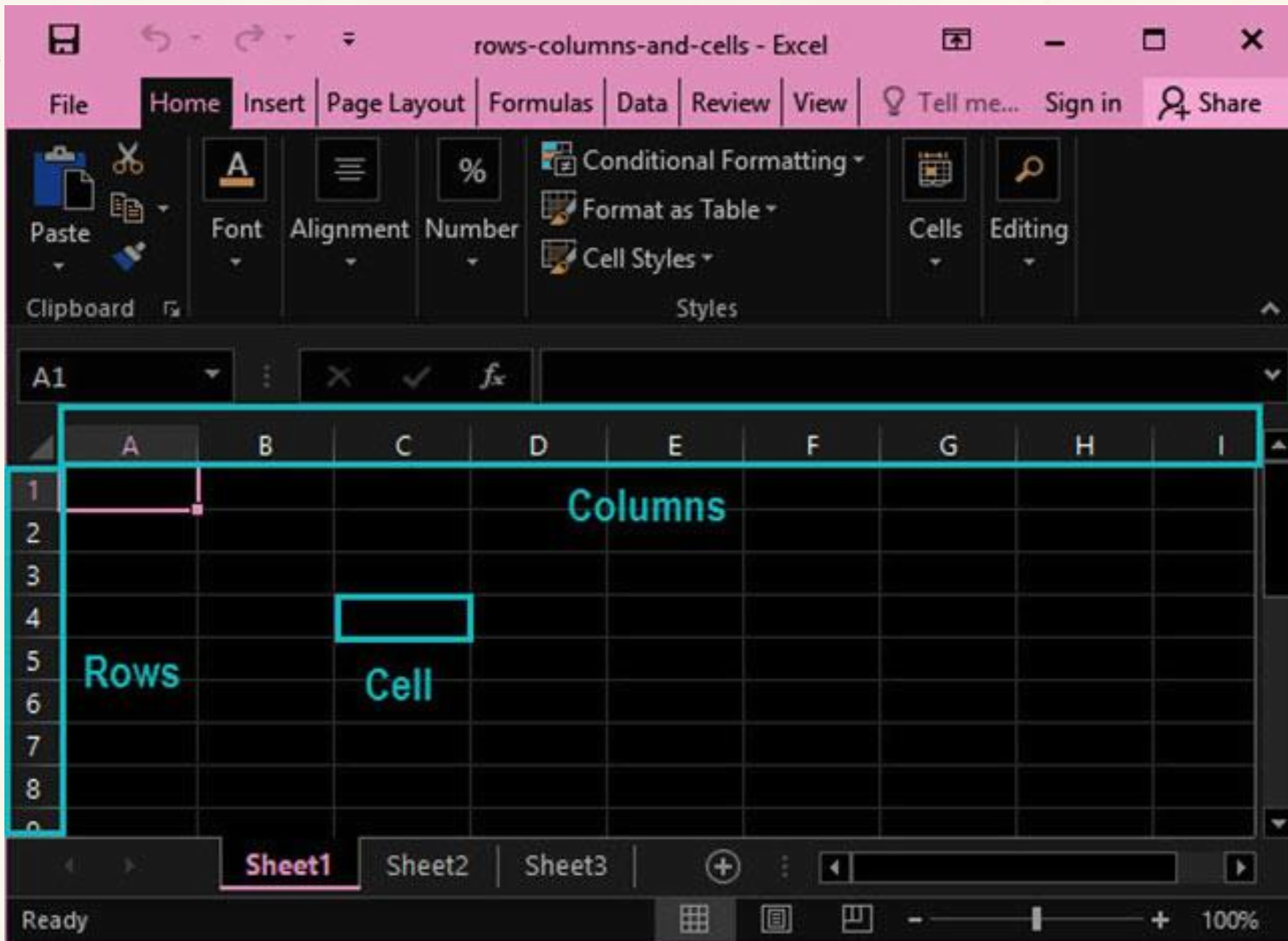


**A. 1**

**B. 2**

**C. 3**

**D. 4**





**Q.30. Which of the following components displays the contents of active cell.?**

**Arora Educator**



**A. Name box**

**B. Formula bar**

**C. Menu bar**

**D. Status bar**

**Which component of MS Excel displays the address of the active cell = Name Box**



# Formula Bar in Excel

Formula Bar:  $\text{f}_x$  `=SUM(F2:F9)`

This is Formula Bar

	A	B	C	D	E	F
1	S.No	receipt_id	Item Code	Amount	GST	
2	1	127504425	heron_foods	4.75	1.2	5.95
3	2	125387159	heron_foods	3.07	1.2	4.27
4	3	118531884	heron_foods	30.92		
5	4	115178509	heron_foods	11.29		
6	5	120962192	heron_foods	12.83		
7	6	118427223	poundworld	33.17		
8	7	119727660	poundworld	24.7		
9						
10			Grand Total	131.73		

Formulas Data Review View Dev

☒ Ruler ☐ Formula Bar ☐ Gridlines ☒ Headings

Show Zoom 100% Zoom Select





**Q.31. VLOOKUP function used to .?**

- A. Finds related records**
- B. Looks up text that contain "v"**
- C. Check if two cells are identical**
- D. None of above**

**Q.32. Which among following wildcard characters are recognized by excel .?**

**Arora Educator**



**A. + and -**

**B. ! and ^**

**C. \* and ?**

**D. < and >**

**Q.33. Choose from the following, which is not the correct method of editing the cell content .?**

**Arora Educator**



- A. Press the Alt key**
- B. Press the F2 key**
- C. Double click the cell**
- D. Click the formula bar**

**Q.34. Another name for a pre-programmed formula in Excel is.?**

**Arora Educator**



- A. Cell**
- B. Graph**
- C. Function**
- D. Range**

**Q.35. Which term is used to join the selected cells in to one cell.?**

**Arora Educator**



- A. Filter**
- B. Wrap**
- C. Pivot**
- D. Merge**



**Q.36. It appear at the bottom of the Excel window.?**

**Arora Educator**



- A. Title bar**
- B. Formula bar**
- C. Work sheet tabs**
- D. Name box**

**Q.37. Which of the following Excel charts represents only one value for each variable.?**

**Arora Educator**



**A. Bar**

**B. Pie**

**C. Line**

**D. Function**

**Q.38. Comments put in cells are called.?**

**Arora Educator**



**A. Smart tip**

**B. Cell tip**

**C. Web tip**

**D. Soft tip**

**Q.39. Getting data from a cell located in a different sheet is called.?**

**Arora Educator**



- A. Accessing**
- B. Referencing**
- C. Updating**
- D. Functioning**

**Q.40. Which of the following is the oldest spreadsheet package.?**

**Arora Educator**



- A. VisiCalc**
- B. Lotus 1-2-3**
- C. Excel**
- D. StarCalc**

**Q.41. Which of the following formulas will Excel Not be able to calculate.?**

**Arora Educator**



- A. =SUM(Sales)-A3**
- B. =SUM(A1:A5)\*.5**
- C. =SUM(A1:A5)/(10-10)**
- D. =SUM(A1:A5)-10**

**Q.42. Which menu option can be used to split windows into two.?**

**Arora Educator**



- A. Format > window**
- B. View > window > split**
- C. Window > split**
- D. View > split**



**Q.43. Which of the following is a popular DOS based spreadsheet package.?**

**Arora Educator**



- A. Word**
- B. Smart cell**
- C. Excel**
- D. Lotus 1-2-3**

**Q.44. The Paste Special command lets you copy and paste.?**

**Arora Educator**



- A. Multiply the selection by a copied value**
- B. Cell comments**
- C. Formatting options**
- D. The resulting values of a formula instead of the actual formula**

**Q.45. Files created with Lotus 1-2-3 have an extension.?**

**Arora Educator**



**A. DOC**

**B. XLS**

**C. 123**

**D. WK1**

**Q.46. When integrating Word and Excel, Word is usually the.?**

**Arora Educator**



**A. Server**

**B. Client**

**C. Source**

**D. None of these**

**Q.47. When a formatted number does not fit within a cell, it displays.?**

**Arora Educator**



**A. #####**

**B. #DIV/0**

**C. #DIV@**

**D. None of these**

**Q.48. Which of the following is concatenating operator.?**

**Arora Educator**

**A. Apostrophe (')**

**B. Exclamation (!)**

**C. Ampersand (&)**

**D. Hash (#)**



**Q.49. Red triangle at the top right corner of a cell indicates.?**

**Arora Educator**

- A. There is an error in the cell**
- B. There is a comment associated with the cell**
- C. The font color of the text in cell is red**
- D. The cell can't accept formula**



**Q.50. To select multiple non - adjacent cells in a worksheet you will click them holding.?**

**Arora Educator**



**A. CTRL key**

**B. ALT key**

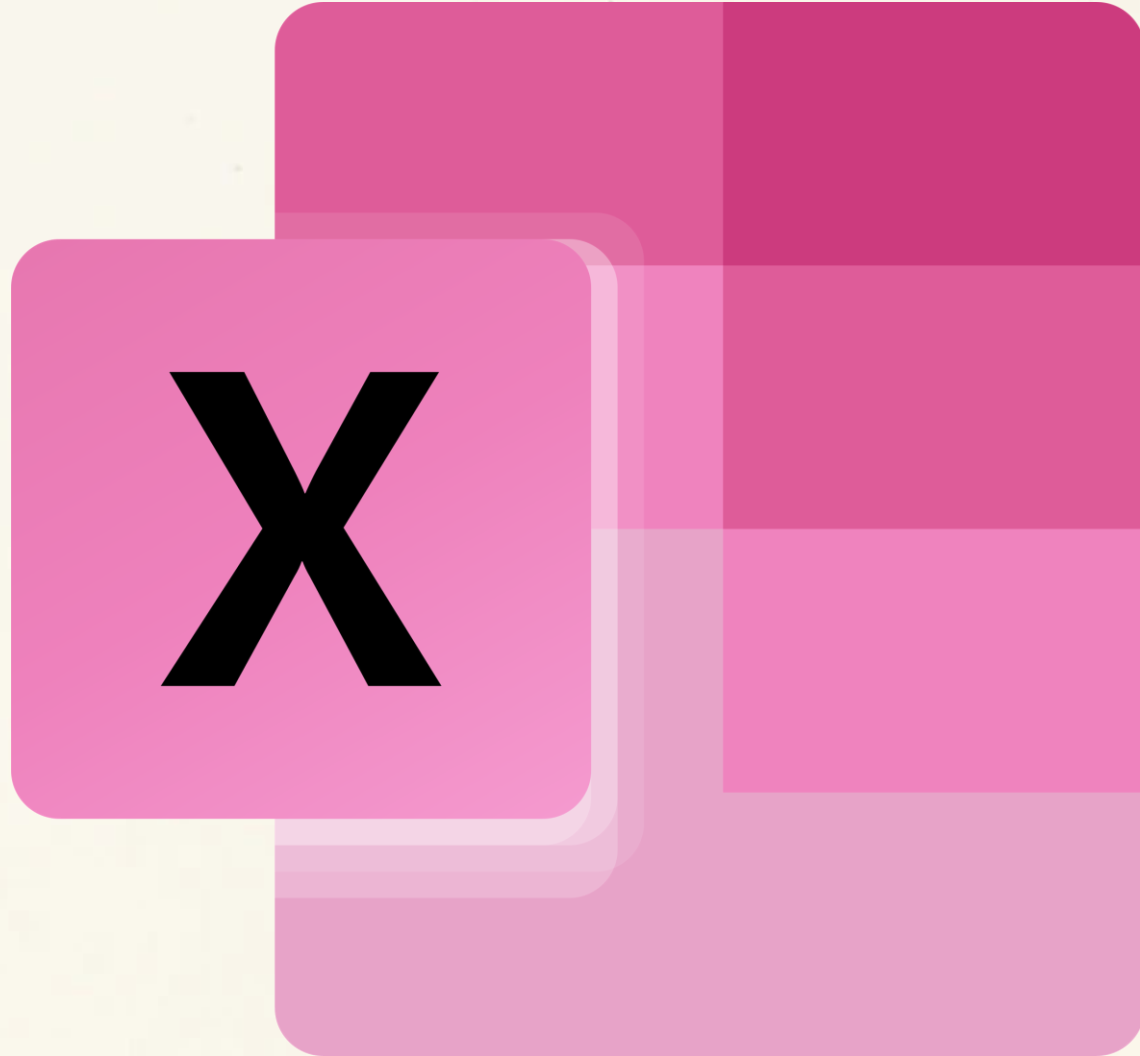
**C. Shift Key**

**D. Ctrl+Shift key**



# MS Excel

Arora Educator



**Q.51. The process of identifying specific rows and columns so that so that certain columns and rows are always visible on the screen is called.?**

**Arora Educator**



- A. freezing**
- B. locking**
- C. selecting**
- D. fixing**

**Q.52. VLOOKUP stands for in MS Excel.?**

**Arora Educator**



- A. Vertical Lookup**
- B. Variable Lookup**
- C. Versatile Lookup**
- D. Vertical Left**

**Q.53. What is the by default file name of MS Excel.?**

**A. Sheet 1**

**B. Book 1**

**C. Document 1**

**D. Excel 1**

**Arora Educator**



**Q.54. In MS-Excel the keyboard shortcut for creating a chart from the selected cells.?**

**Arora Educator**



**A. F3**

**B. F5**

**C. F12**

**D. F11**

**Q.55. Workbook can be closed using keyboard shortcut.?**

**A. Ctrl+C**

**B. Ctrl+W**

**C. Esc**

**D. Ctrl+E**

**Arora Educator**



**Q.56. The \_\_\_ feature of MS excel quickly completes a series of data.?**

**Arora Educator**



- A. Auto Filter**
- B. Auto Complete**
- C. Auto Fill**
- D. Auto Sum**

**Q.57. In MS Excel, keyboard shortcut keys to create a new workbook is.?**

**Arora Educator**



**A. Tab+N**

**B. Fn+N**

**C. Alt+N**

**D. Ctrl+N**



**Q.58. Open workbooks can easily be switched using.?**

- A. Ctrl+S**
- B. Alt+S**
- C. Ctrl+Alt**
- D. Ctrl+Tab**

**Arora Educator**



**Q.59. How do you display current date only in MS Excel.?**

**A. Date ()**

**B. Today ()**

**C. Now ()**

**D. Time ()**

**Arora Educator**



**TODAY – returns today's date**

**NOW – returns the current date and time**

**Q.60. What does COUNTA () function do.?**

**Arora Educator**



- A. Counts cells having alphabets**
- B. Counts empty cells**
- C. Counts cells having number**
- D. Counts non-empty cells**

**Q.61. You can convert existing excel worksheet data an charts to an HTML document by using.?**

**Arora Educator**



- A. FTP wizard**
- B. Internet assistant wizard**
- C. Intranet wizard**
- D. Import wizard**



# MS PowerPoint

Arora Educator



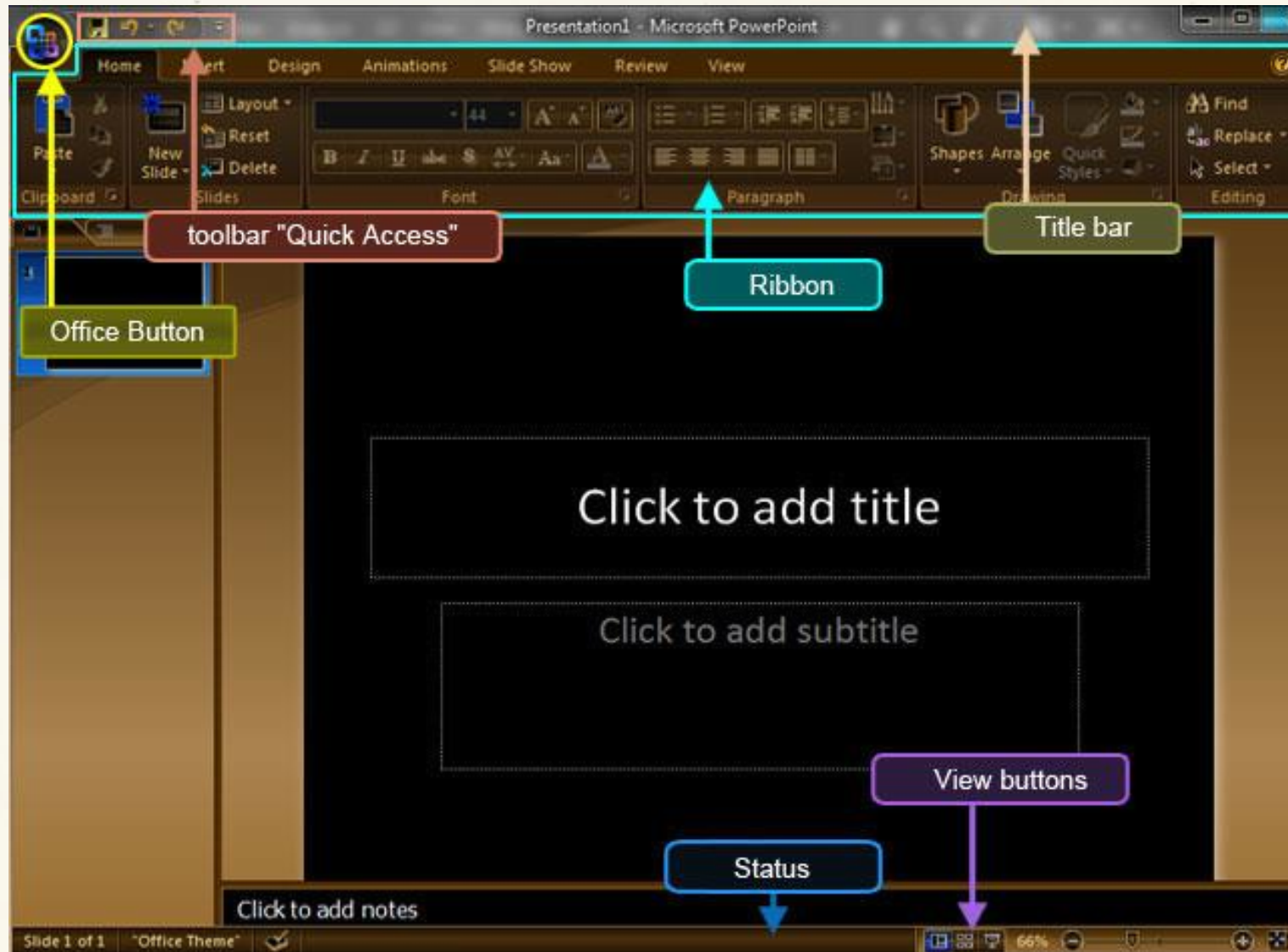
# MS PowerPoint

Arora Educator



# MS PowerPoint

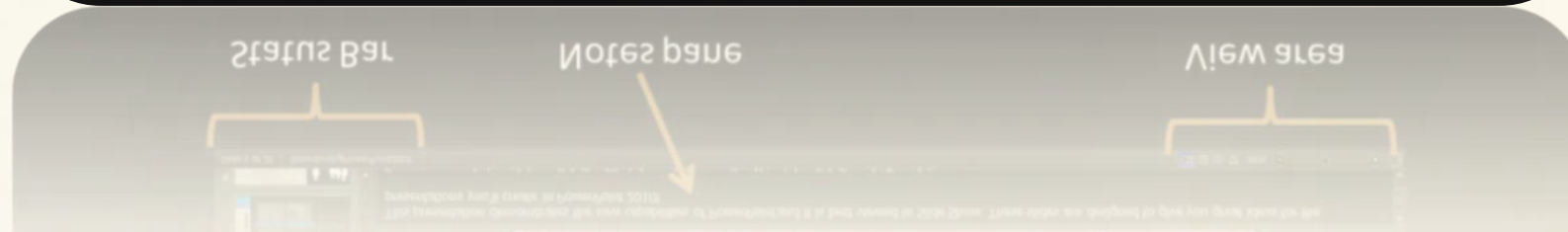
Arora Educator





# MS PowerPoint

Arora Educator





# **MS PowerPoint = Presentation**

**Arora Educator**



- 1) Microsoft = MS PowerPoint**
- 2) Google = Google Slides**
- 3) Apple = Keynote**
- 4) LibreOffice = OpenOffice.org = Impress**

# MS PowerPoint Facts

Arora Educator



- 1) Create a new presentation/Blank Presentation  
= Ctrl + N
- 2) Insert a new slide = Ctrl + M
- 3) Duplicate the current slide = Ctrl + D
- 4) View Slide/Run a presentation = F5
- 5) View the slide show from the current slide =  
Shift + F5
- 6) Return to the first slide during show = 1 + Enter
- 7) End the slide show = Esc

# MS PowerPoint Facts

Arora Educator



- 8) **Presenter = PowerPoint**
- 9) **Extension = .ppt/.pptx**
- 10) **Individual Page = Slide**
- 11) **Dotted Box = Place Holder**
- 12) **Animation Pane = Right Side**
- 13) **Readymade Style = Template**

# MS PowerPoint Facts

Arora Educator



**14) Zoom (Minimum) = 10**

**15) Zoom (Maximum) = 400**

**16) Zoom (Default) = 100**

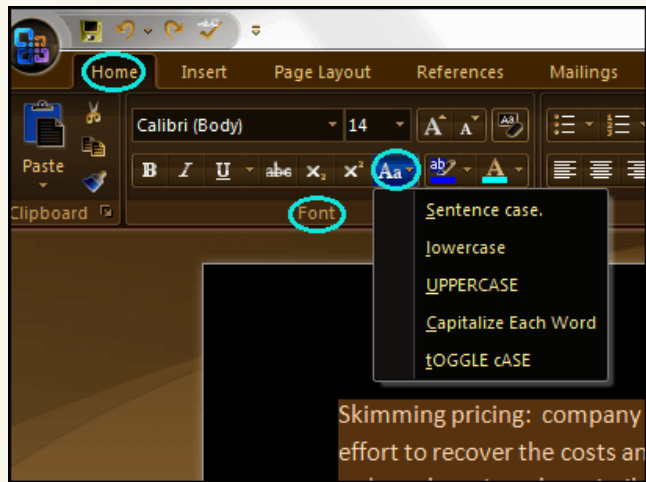
# MS PowerPoint Facts

Arora Educator



## Text Case =

- 17) Sentence case = the first letter of the first word in a sentence is capitalized.
- 18) lower case = no letters are capitalized.
- 19) UPPER CASE = every character is capitalized
- 20) Capitalize Each Word = First Letter of each Word is capitalized.
- 21) toGGLE caSe = random characters are capitalized



# MS PowerPoint Facts

Arora Educator



**22) What is the default PowerPoint standard layout? = Title slide**

**23) Which PowerPoint view displays each slide of the presentation as a thumbnail and is useful for rearranging slides? = Slide Sorter**

**24) In a presentation of PowerPoint, the special effects used to introduce slides are known as = Transitions**

**25) Which of the following is the shortcut key to insert a new slide between the current presentation? = Ctrl + M**

# MS PowerPoint Facts

Arora Educator



**26) What we have to type in the Run dialog box to open PowerPoint? = Powerpnt**

**27) Which of the following shortcut key is used to stop the slide show? = Esc key**

**28) Which of the following command in powerpoint is used to bring the user directly to the first slide of the presentation? = Ctrl + Home**

**29) Which of the following command in powerpoint is used to bring the user directly to the last slide of the presentation? = Ctrl + End**

# MS PowerPoint Facts

Arora Educator



30) Which of the following is the shortcut key for checking the spelling in PowerPoint? = F7

31) Which of the following shortcut key in powerpoint is used to repeat the recent find? = F4

32) What is the shortcut key to insert a hyperlink in the slide? = Ctrl + K

33) Which of the following is the shortcut key used to start the presentation from the current slide? =  
Shift + F5

34) Which of the following is used to see all slides at once?  
= Using slide sorter view



# MS PowerPoint Facts

Arora Educator



**35) What is the slide transition? = It is a special effect used to introduce a slide in a slide show.**

**36) What term will be used when you hold the left key of the mouse on an object and move it on the slide? =**

**Dragging**

**37) In a powerpoint presentation, how would you insert a logo that will appear in the same position on all the slides?**

**= Insert logo on the slide master**

**38) Which of the following shortcut key is used to center align the text in a slide? = Ctrl + E**

# MS PowerPoint Facts

Arora Educator



39) Which file format can be added to a PowerPoint show ? = .gif, .jpg, .wav

40) What is a motion path? = A method of moving items on a slide

# Apple iWork

Arora Educator



**Apple's Word Processor = Pages**

**Apple's Spreadsheet = Numbers**

**Apple's Presentation = Keynote**



# Google Suites/Google Drive

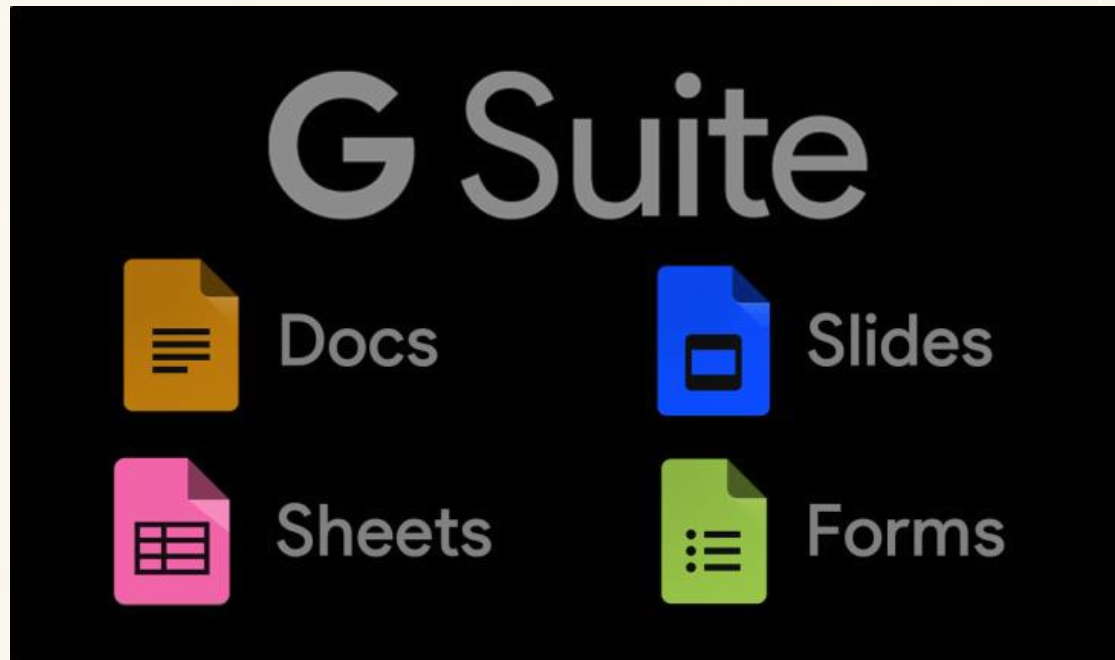
Arora Educator



Google Word Processor = Google Docs

Google Spreadsheet = Google Sheets

Google Presentation = Google Slides



# LibreOffice

Word Processor = Writer

Spreadsheet = Calc

Presentation = Impress

Vector Graphics = Draw

Database = Base

Formula Editing = Math



Arora Educator



# MS PowerPoint

Arora Educator



# MS PowerPoint Questions



**Q.1. Which of the following applications is used to create presentations.?**

**Arora Educator**



- A. MS-Word**
- B. MS-PowerPoint**
- C. MS-Access**
- D. MS-Excel**



**Q.2. What is the systematic display of data along with graphics, sounds, movies, etc., called.?**

**Arora Educator**



- A. Presentation**
- B. Database**
- C. Information**
- D. Processing**

**Q.3. What is the file extension of a MS-Power Point file.?**

**Arora Educator**



**A. .ppf**

**B. .ptp**

**C. .dpp**

**D. .ppt**

**Q.4. What is an individual page of a presentation called.?**

**Arora Educator**

- A. Slide**
- B. Layout**
- C. Card file**
- D. Handout**



**Q.5. In MS-PowerPoint, which is a shortcut key combination for inserting a new slide.?**

**Arora Educator**



**A. Ctrl + M**

**B. Ctrl + N**

**C. Alt + I**

**D. Ctrl + J**

**Q.6. Which one of the following can be categorized as a multimedia software.?**

**Arora Educator**



**A. Paint brush**

**B. MS-Word**

**C. MS-PowerPoint**

**D. MS-Excel**

**Q.7. What is an electronic page in a presentation called?**

**Arora Educator**



- A. Page Preview**
- B. Handout**
- C. Slide**
- D. e-Slide**

**Q.8. Which is the shortcut key to view slide in MS-PowerPoint?**

**Arora Educator**



**A. F4**

**B. F5**

**C. F6**

**D. F7**

**Q.9. What is the keyboard shortcut for creating duplicate slide in PowerPoint?**

**Arora Educator**



**A. Ctrl + D**

**B. Ctrl + S**

**C. Ctrl + X**

**D. Ctrl + C**



**Q.10. Which of the following is NOT an animation effect?**

**Arora Educator**



**A. Appear**

**B. Fade**

**C. Translate**

**D. Wheel**

**Q.11. What is the shortcut key to create a blank presentation?**

**Arora Educator**



**A. Ctrl + P**

**B. Ctrl + N**

**C. Ctrl + D**

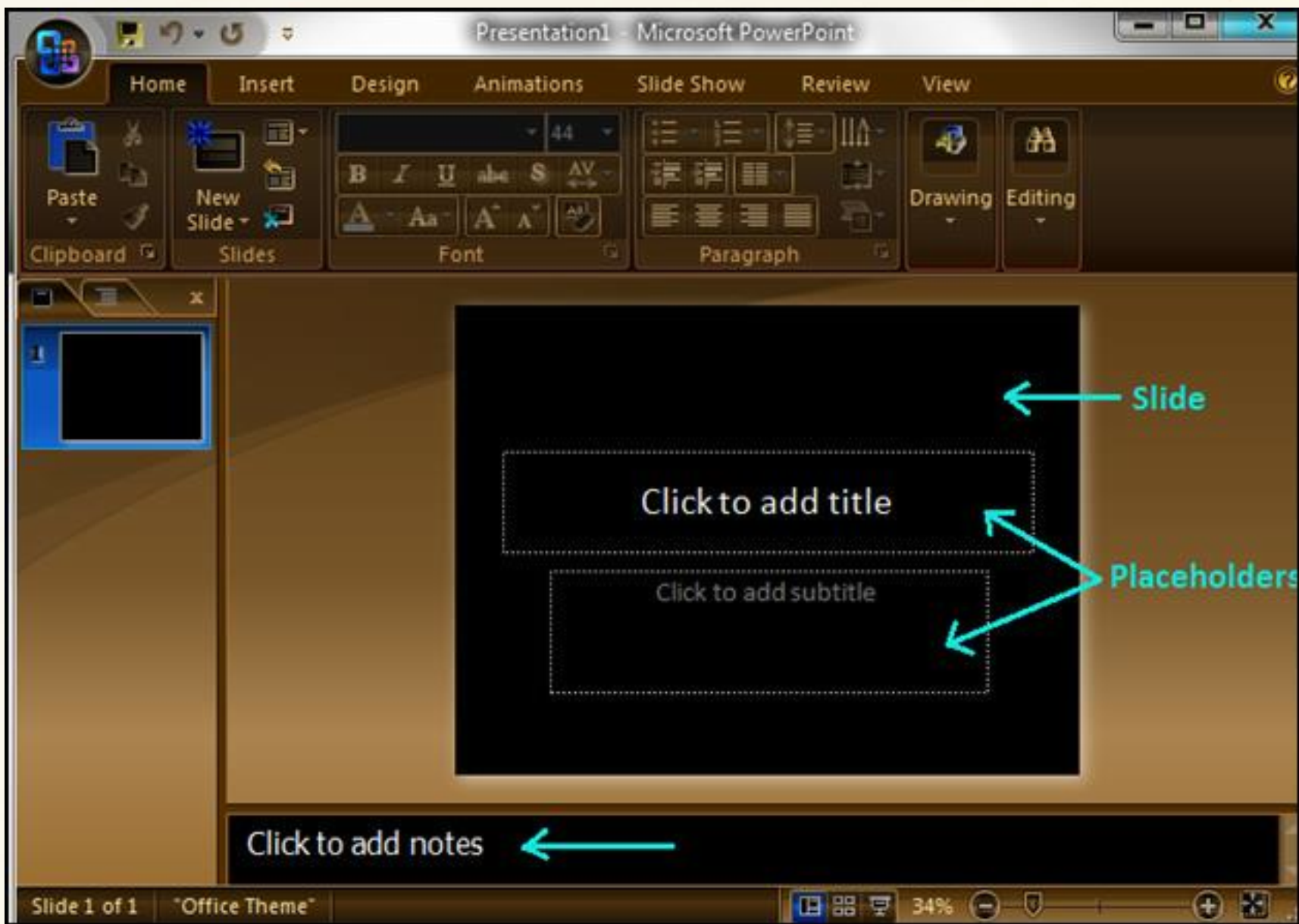
**D. Ctrl + C**

**Q.12. What does the dotted box marked in the in MS PowerPoint text area represent?**

**Arora Educator**



- A. Slide**
- B. Place holder**
- C. Presentation task pane**
- D. Slide layout task pane**



## Place holder

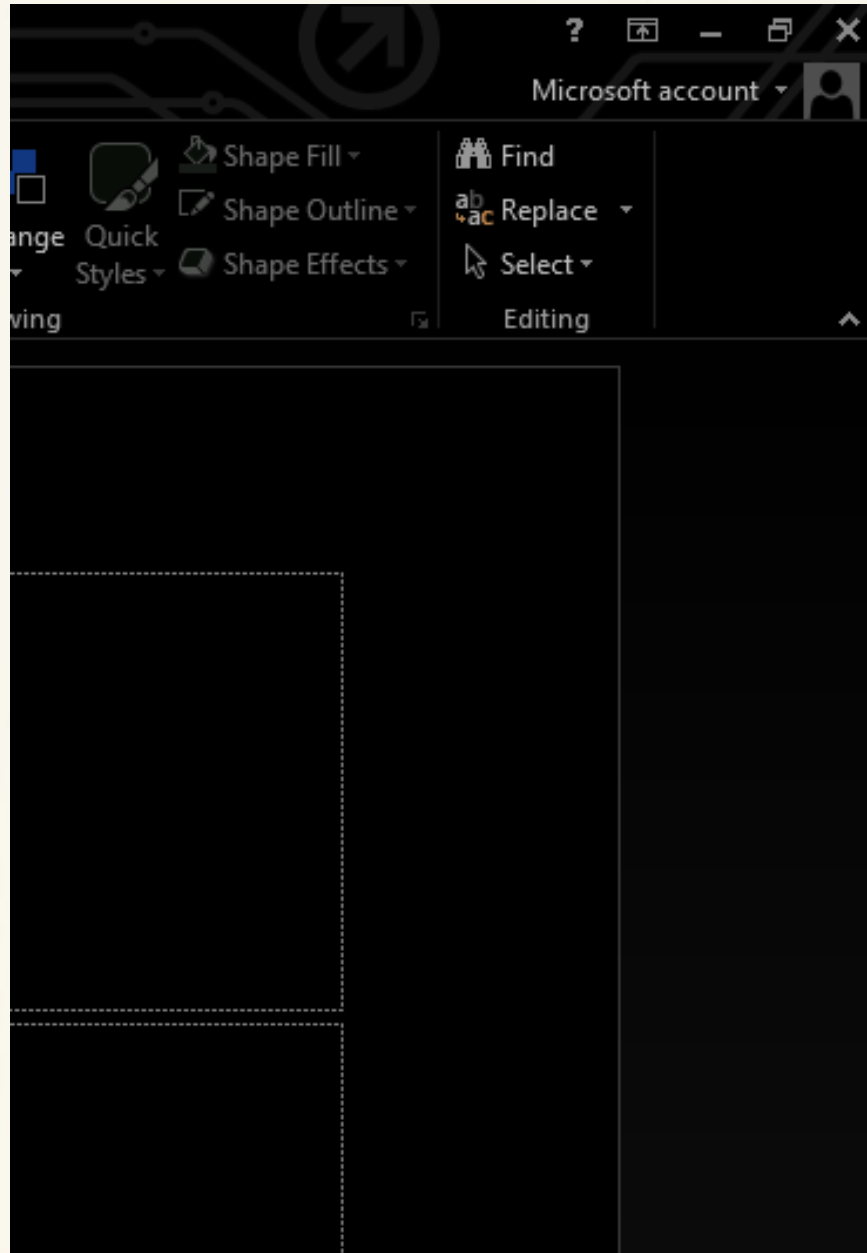
**Q.13. What does the question mark in MS-PowerPoint window represent?**

**Arora Educator**



- A. Title bar**
- B. Status bar**
- C. Menu box**
- D. Formatting bar**

# Menu Box



# Arora Educator



**Q.14. What steps will you use to view a slide show?**

**Arora Educator**



- A. View → Slide Show**
- B. Slide Show → View Show**
- C. Both (a) and (b)**
- D. Tools → Slide Show**

**Q.15. On which side of the MS-PowerPoint window does the Animation pane appear?**

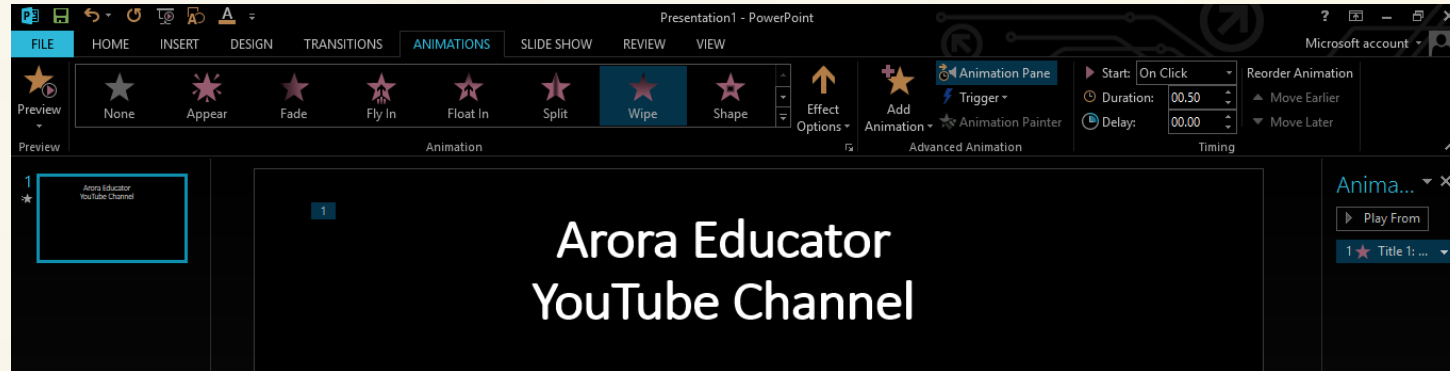
**Arora Educator**

**A. top**

**B. right**

**C. left**

**D. bottom**





**Q.16. What happens on pressing the Ctrl + W combination key in MS PowerPoint?**

**Arora Educator**



- A. Save the file**
- B. Copies the file**
- C. Closes the file**
- D. Open the file**

**Q.17. Which of the combinational key is used to open a presentation?**

**Arora Educator**



**A. Ctrl + O**

**B. Ctrl + N**

**C. Ctrl + M**

**D. Ctrl + P**

**Q.18. Identify the shortcut key to delete one word to the left of cursor in MS-PowerPoint.?**

**Arora Educator**



- A. Ctrl + Backspace**
- B. Backspace**
- C. Shift + Backspace**
- D. Alt + Backspace**

**Q.19. What is the keyboard shortcut key for checking spelling in MS PowerPoint.?**

**Arora Educator**



**A. F4**

**B. F5**

**C. F3**

**D. F7**

**Q.20. In PowerPoint, we can replace a font on all slides with another font using the \_\_\_\_ option.?**

**Arora Educator**



- A. Edit → Fonts**
- B. Tools → Fonts**
- C. Tools → Replace fonts**
- D. Format → Replace fonts**

**Q.21. Which of the following is the opposite of title case.?**

**Arora Educator**



**A. Sentence case**

**B. Toggle case**

**C. Upper case**

**D. Lower case**

**Q.22. Which of the following tool bars in PowerPoint has bullets and numbering option.?**

**Arora Educator**

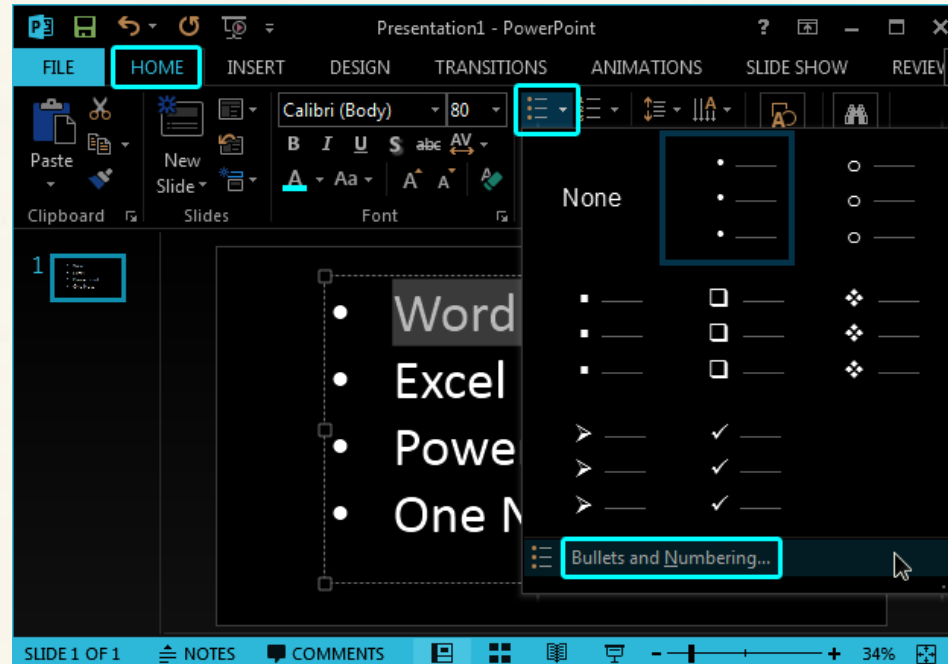


**A. Format**

**B. Tools**

**C. Insert**

**D. View**



**Q.23. What is the shortcut combination key to increase the size of selected text in MS-PowerPoint?**

**Arora Educator**

- A. Ctrl + Shift + >**
- B. Ctrl + Shift + <**
- C. Ctrl + Shift + Plus**
- D. Ctrl + Shift + Minus**





**Q.24. What are the steps to save a PowerPoint file?**

**Arora Educator**



- A. File → Save**
- B. File → Save as**
- C. Press CTRL+ S**
- D. All the above**

**Q.25. What is the file extension of MS PowerPoint slide show?**

**Arora Educator**



**A. .ppt**

**B. .pps**

**C. .pss**

**D. .ppss**

# Extensions in MS PowerPoint

Arora Educator



- ✓ **.ppsx = PowerPoint Show**
- ✓ **.ppt = PowerPoint 97-2003 Presentation**
- ✓ **.pptm = PowerPoint Macro-Enabled Presentation**
- ✓ **.pptx = PowerPoint Presentation (version 2007 or higher)**

**Q.26. When you create a new presentation, what will be the first slide?**

**Arora Educator**



- A. Blank Slide**
- B. Title Slide**
- C. First Slide**
- D. Normal View**

**Q.27. What is meant by sorting in PowerPoint?**

**Arora Educator**

- A. The physical arrangement of the data.**
- B. The changing of font of the data.**
- C. The changing of font colour of the data.**
- D. The changing of the alignment of data.**



**Q.28. What are the special effects used for introducing slides in a presentation called?**

**Arora Educator**



- A. Effects**
- B. Custom animations**
- C. Transitions**
- D. Present animations**

**Q.29. Which of the following audio formats can be inserted into a PowerPoint presentation?** **Arora Educator**



**A. mp3**

**B. .avi**

**C. .mov**

**D. .wmv**

**Q.30. Which of the following files is non-editable presentation, created in MS-PowerPoint?** **Arora Educator**



A. ppt

B. pps

C. ppp

D. ppl



**Q.31. In PowerPoint, a file which contains ready-made styles that can be used for a presentation is called ?**

**Arora Educator**

**A. auto style**

**B. template**

**C. wizard**

**D. pre formatting**



**Q.32. To automatically place your company logo at the same position on every slide you should use ?**

- A. Handout Master**
- B. Notes Master**
- C. Slide Master**
- D. All of these**

**Arora Educator**





**Q.33. A theme can be?**

- A. Applied to all slides**
- B. Applied to selected slides**
- C. Hidden by right clicking on it**
- D. Both [A] and B]**

**Q.34. What allows you to display your presentation in a web browser.?**

**Arora Educator**



- A. Custom Slide Show**
- B. Broadcast Slide Show**
- C. Set up Slide Show**
- D. Rehearse Slide Show**

**Q.35. Minimum Zoom percentage in MS PowerPoint is.?**

**Arora Educator**



**A. 5**

**B. 10**

**C. 15**

**D. 20**

**Q.36. Maximum Zoom percentage in MS PowerPoint is.?**

**Arora Educator**



**A. 100**

**B. 200**

**C. 300**

**D. 400**

**Q.37. By default Zoom percentage in MS PowerPoint is.?**

**Arora Educator**



**A. 100**

**B. 200**

**C. 300**

**D. 400**

**Q.38. Which view is used to easily rearrange slides.?**

**Arora Educator**

**A. Slide Sorter**

**B. Slide Pane**

**C. Slide Indicator**

**D. None of the Above**





**Q.39. A slide that displays at the end of a slide presentation indicating the end of the slide show is known as?**

**Arora Educator**

- A. Black Slide**
- B. End Slide**
- C. White Slide**
- D. Blue Slide**



**Q.40. Which of the following shortcut is used to move the cursor to the end of presentation?**

**Arora Educator**



**A. Ctrl + Pg Dn**

**B. Ctrl + Del**

**C. Ctrl + Home**

**D. Ctrl + End**

**Q.41. Which group is used to insert movie from a file, a CD or Clipboard?**

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- A. Outline**
- B. Slide Pane**
- C. Media Clips**
- D. Action Button**

**Q.42. Which is used to return to the first slide during the Slide-Show?**

**Arora Educator**



**A. 1 + Enter**

**B. Shift + 1 + Enter**

**C. Ctrl + 1 + Enter**

**D. Ctrl + 1**

**Q.43. What is the default PowerPoint standard layout.?**

**A. Blank**

**B. Title slide**

**C. Default only**

**D. Comparison**

**Arora Educator**



**Q.44. To resume the Slide show in PowerPoint:?**

**Arora Educator**

**A. Shift +F2**

**B. Shift +F3**

**C. Shift +F4**

**D. Shift +F5**



**Q.45. To end the Slide show in PowerPoint:?**



**A. Esc**

**B. End**

**C. Delete**

**D. None of these**

**Q.46. Which file format can be added to a PowerPoint show ?**

**Arora Educator**



**A. .gif**

**B. .jpg**

**C. .wav**

**D. All of above**



**Q.47. Times new Roman, Cambria, Arial are the example of.?**

**Arora Educator**



- A. Font face**
- B. Clipart**
- C. SmartArt**
- D. Themes**

**Q.48. Which is defined as an object that performs on the slide when we click the mouse?**

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**A. Interrupt**

**B. Trigger**

**C. Video**

**D. None of the Above**

**Q.49. Which of the following is used to center a paragraph?**

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**A. Ctrl + D**

**B. Ctrl + E**

**C. Ctrl + C**

**D. Ctrl + F**

**Q.50. Which is used to change case of letters in a PowerPoint?**

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**A. Shift + F1**

**B. Shift + F2**

**C. Shift + F3**

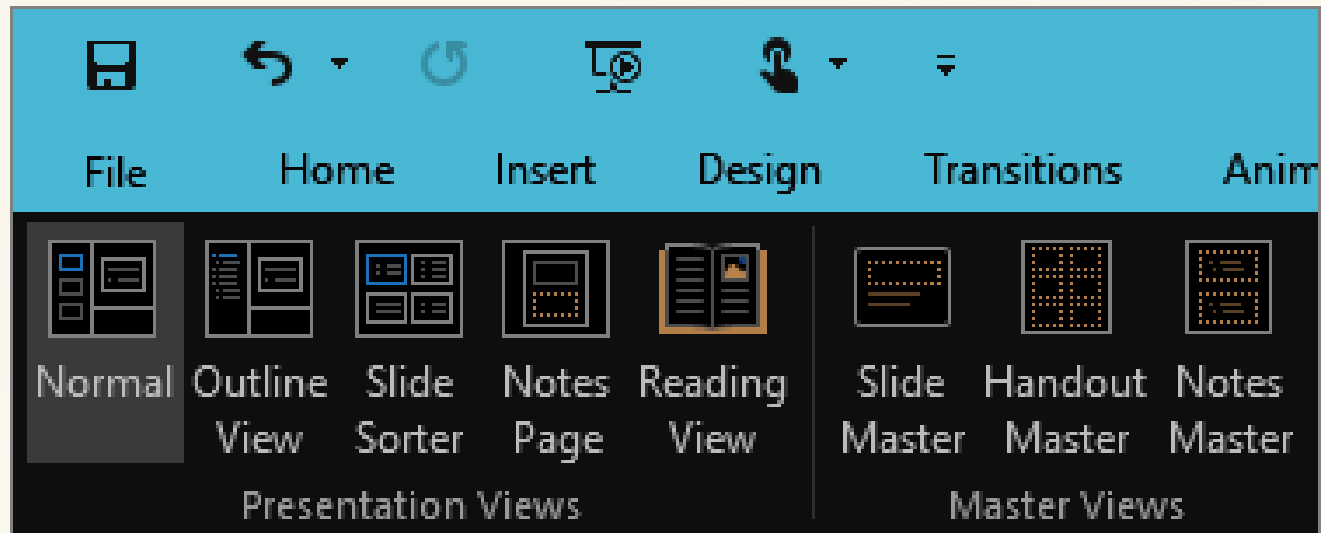
**D. Shift + F4**



**Views on PowerPoint = 8**

**Presentation Views = 5**

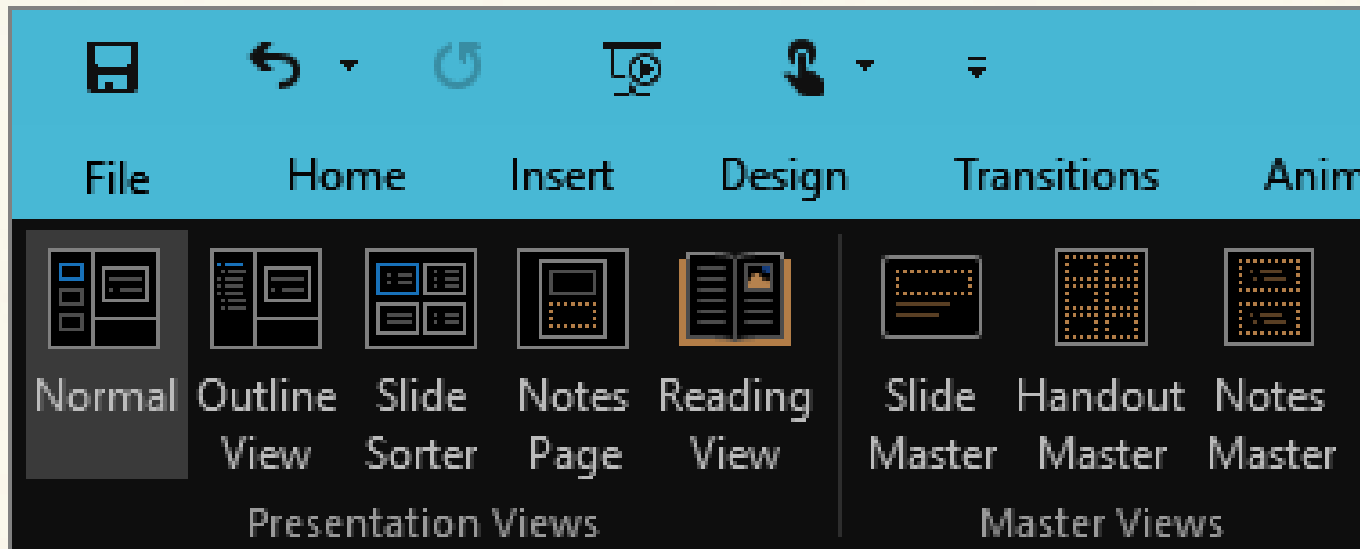
**Master Views = 3**





## Presentation Views = 5

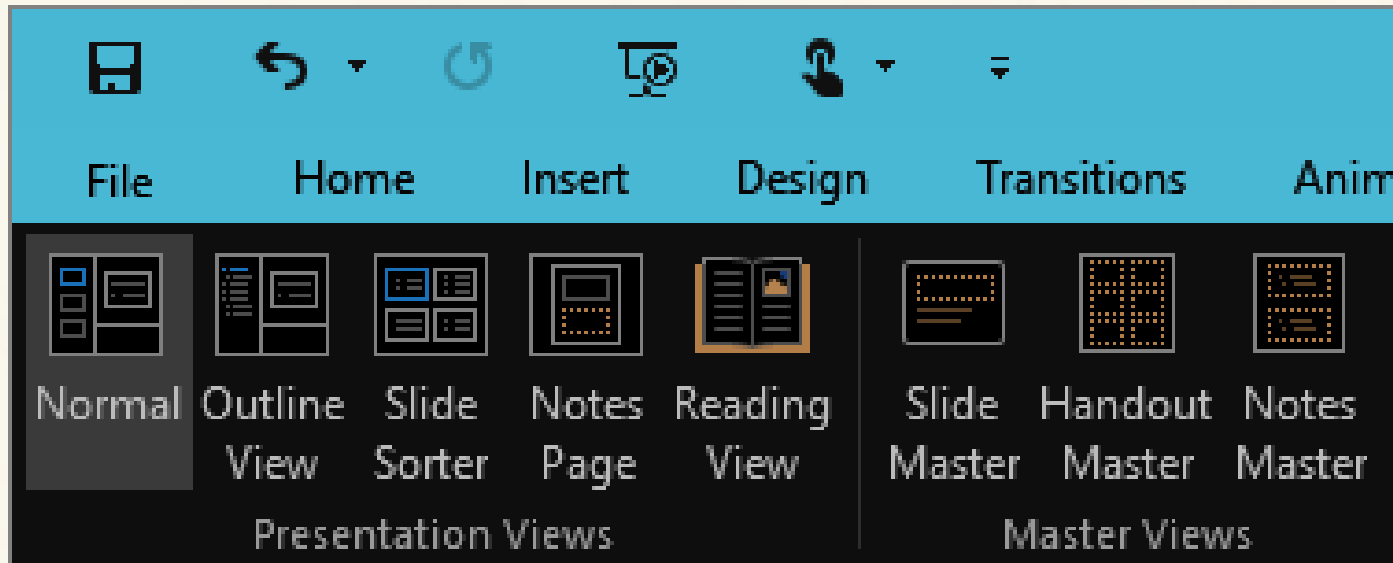
- 1) Normal View = Editing mode (Create Slides)
- 2) Outline View = Heading Levels
- 3) Slide Sorter = Thumbnail Form/Easy to reorder, add, delete slides
- 4) Notes Page = extra text (Comment) that you want to put onto your slides
- 5) Reading View = Same as slide show + Status Bar Visible





## Master Views = 3

- 1) Slide Master = Changes in this apply changes in all slides (Logo add)
- 2) Handout Master = repositioning, resizing, or formatting of the header and footer
- 3) Notes Master = customize how your presentation looks when printed out with notes



# MS PowerPoint

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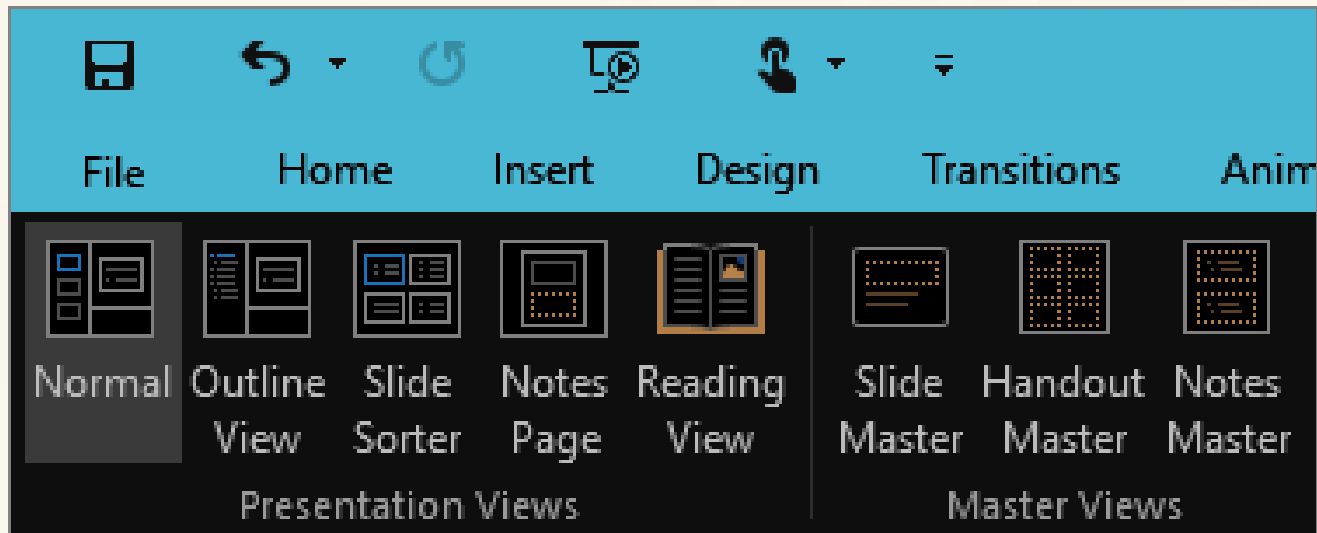




**Views on PowerPoint = 8**

**Presentation Views = 5**

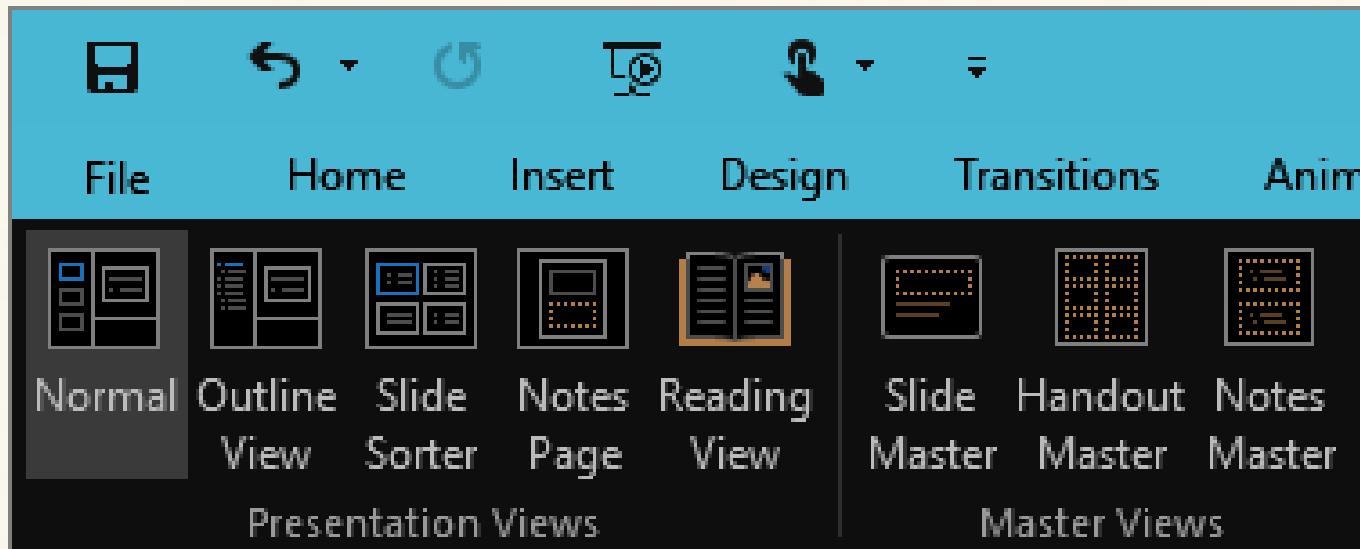
**Master Views = 3**





## Presentation Views = 5

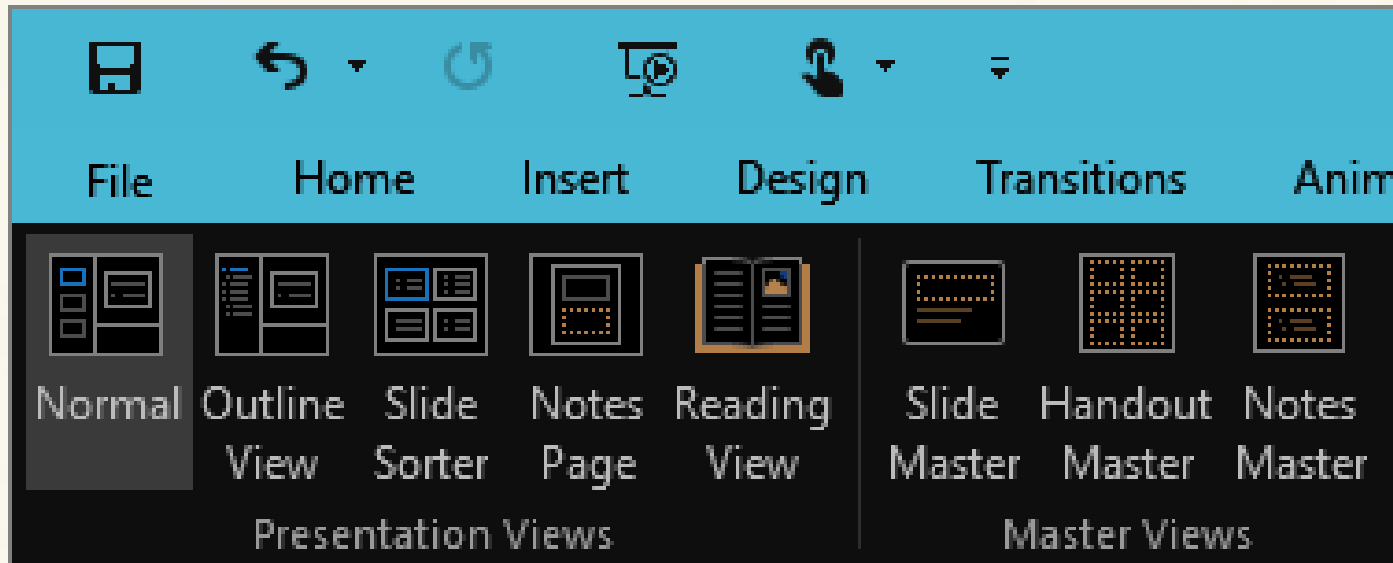
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## Master Views = 3

- 1) Slide Master = Changes in this apply changes in all slides (Logo add)
- 2) Handout Master = repositioning, resizing, or formatting of the header and footer
- 3) Notes Master = customize how your presentation looks when printed out with notes



**Q.51. Which of following are not PowerPoint views.?**

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**A. Page View**

**B. Slide Sorter View**

**C. Normal View**

**D. Outline View**



**Q.52. Which of the following is used to see all slides at once.?**

**Arora Educator**



**A. Page View**

**B. Slide Sorter View**

**C. Normal View**

**D. Outline View**

**Q.53. Which of the following view in powerpoint is used to add comments.?**

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- A. Slide sorter view**
- B. Notes page view**
- C. Normal view**
- D. None of the above**

**Q.54. In a powerpoint presentation, how would you insert a logo that will appear in the same position on all the slides.?**

**A. Insert logo on handout master**

**B. Insert logo on the slide master**

**C. Insert logo on notes master**

**D. Insert logo individually on each slide of the presentation**

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**Q.55. What is the easiest way to place same graphic in same place in all slides.?**

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- A. Place graphic in Notes Master**
- B. Place graphic in Slide Master**
- C. Place graphic in Handout Master**
- D. Place graphic manually in all slide**



**Q.56. What is defined by Handout Master.?**

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- A. Slide Formatting**
- B. Slide Transaction**
- C. Layout of Handout**
- D. Layout of Slide**

**Q.57. It allows you to customize how your presentation looks when printed out with notes.?**

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- A. Notes Master**
- B. Slide Master**
- C. Handout Master**
- D. Slide Show**

**Q.58. Which of the following is not a valid Master View option in Microsoft PowerPoint 2016.?**

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- A. Slides Master**
- B. Slide sorter view**
- C. Notes Master**
- D. Handout Master**

**Q.59. Which command brings to the first slide in MS - PPT.?**

**A. Next slide button**

**B. Page up**

**C. Ctrl + Home**

**D. Ctrl + End**

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**Q.60. Which one of the following allows to see all the slides in the presentation on screen at the same time.?**

- A. Slide Sorter view**
- B. Power Point view**
- C. View Show**
- D. All of these**

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**Thanks..!!**

**Arora Educator**





# **Topic : Software**

# Topic : Software

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- 1- Set of Lines/Set of instructions
- 2- Mobile = Applications
- 3- Name the code which is required to create a software = Source Code
- 4- Smallest unit of a Software = Module
- 5- Collection of Module is called = Software



# Topic : Software

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- 6- Extension of Software is called = .exe
- 7- .exe stands for = Executable File
- 8- Collection of Object code is called = Executable File
- 9- Object Code is also called as = Machine Code
- 10- Patches = Online Repair of bug which is available free of cost

# Topic : Software

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## 11- Types of Source Code = 2

1- **Open Source Code** = Free of cost + Editing

2- **Closed Source Code** = Proprietary Code , Restricted by the developer

# Topic : Software

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## 1- Open Source Code Softwares =

- Android OS
- Linux OS
- Browsers = Mozilla Firefox
- Antivirus = Avast

## 2- Closed Source Code Softwares =

- Microsoft Office
- Tally
- ERP
- SAP

# Topic : Software

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## Types of Software-

1-**Freeware** = VLC Media Player, Internet Explorer, Other Browsers

2-**Malware** = Malicious Software = Destructive Software = Trojan Horse, Virus, Worm, Rootkits, Ransomware...!!

3-**Shareware** = Free of cost + Paid = Antivirus = Kaspersky, Quick Heal

# Topic : Software

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## Types of Software-

4- **Trialware** = Shareware

5- **Nagware** = Annoyware = Begware = Pop Up Alerts

# Topic : Software

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**EULA** = End User License Agreement = Contract between User & Publisher

## Types of Software in a Broader Concept-

- 1) System Software
- 2) Application Software



# Topic : Software

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## 1- System Software

- Utility Software
- Operating System
- Compiler (Language Translators)
- Interpreter (Language Translators)
- Assembler (Language Translators)
- Driver = Software, which is used to run a

Hardware

-Firmware ( Hardware + Software ) = BIOS,  
Remote, Traffic Light Signal, Embedded System

# Topic : Software

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## 2-Application Software

- MS Office
- ERP - Enterprise Resource Planning
- SAP -
- Media Player - VLC, Windows
- Browsers
- Accounting Software - Tally
- Customized Softwares



# Topic : Software

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## Categories of Software-

### 1-Horizontal Software

- Anyone can use
- Corporate Softwares

### 2-Vertical Software

- Niche Software
- Customized Softwares
- Tailored Software
- On Demand Softwares = Bacs, Finacle

# Topic : Software

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**Utility Software** = System/Computer = speed increase = Antivirus, Disk Defragmenter, Disk Cleaner, Disk Backup, Disk Compression.

**Disk Defragmenter** = Separate Used Space & Unused Space

# Topic : Software

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## Language Translators/Debugger

1. **Compiler** = HLL → ML = Source Code →

Object Code = Error Shown = All at once

2. **Interpreter** = HLL → ML = Error Shown =  
Line by line

Q -) Name that programming Language in  
which both Compiler & Interpreter is used =  
JAVA Language

3. **Assembler** = Convert = Assembly Language  
→ Machine Language





# **Topic : Software MCQ**



**Q.1. Software that steal or destroy data of a computer is called?**

- 1) Hacking**
- 2) Cyber Crime**
- 3) Criminal**
- 4) Malware**



## **Q.2. Types of Malware are ?**

- 1) Virus**
- 2) Adware**
- 3) Trojan**
- 4) All of these**



**Q.3. Agreement between Software developer & software user is called ?**

- 1) Installation**
- 2) ELUA**
- 3) Downloading**
- 4) EULA**



## Q.4. EULA Stands for?



- 1) End User License Agreement**
- 2) End User Local Agreement**
- 3) End User Legal Agreement**
- 4) Exact User License Agreement**





**Q.5. Name that Vertical Software used in Banks?**

- 1) MS Office**
- 2) Adobe Reader**
- 3) Finacle**
- 4) All of these**



**Q.6. Finacle was developed by which company ?**

- 1) Accenture**
- 2) TCS**
- 3) Infosys**
- 4) Oracle**



## Q.7. Extension of Software is?

- 1) .EXE
- 2) .BAK
- 3) .CDR
- 4) .PDF



**Q.8. Error in a software is called?**

- 1) Mistake**
- 2) Bug**
- 3) Debug**
- 4) Troubleshoot**

**Q.9. Changes made in existing software is called?**

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- 1) Update**
- 2) Upgrade**
- 3) Patch**
- 4) Troubleshoot**



**Q.10. Delete old version & install new version of a software is called?**

- 1) Update
- 2) Upgrade
- 3) Patch
- 4) Troubleshoot

**Q.11. Name the World's First Programmer?**

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- 1) Charles Babbage**
- 2) Herman Hollerith**
- 3) Aryabhata**
- 4) Ada Lovelace**



**Q.12. Set of Instructions are called?**

- 1) Hardware**
- 2) Database**
- 3) Software**
- 4) Processor**





**Q.13. Smallest unit of a software is?**

- 1) Programme**
- 2) Instructions**
- 3) Module**
- 4) Memory**



**Q.14. Collection of module is called ?**

- 1) Software**
- 2) Multimedia**
- 3) MS Office**
- 4) Networking**



**Q.15. Which software is much required for your computer ?**

- 1) System Software**
- 2) Application Software**
- 3) Horizontal Software**
- 4) ERP Software**



**Q.16. Among these name the Utility Software?**

- 1) Antivirus**
- 2) Disk Cleanup**
- 3) Disk Defragmenter**
- 4) All of these**

**Q.17. Utility software is responsible for?**

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- 1) Booting the Computer**
- 2) System Formatting**
- 3) Computer Storage**
- 4) Increase Performance**



**Q.18.Name the person who design a software ?**

- 1) Software Engineer**
- 2) Coder**
- 3) Programmer**
- 4) Database Administrator**



**Q.19. Vertical Software is ?**

- 1) Custom Software**
- 2) Niche Software**
- 3) Industry Specific Software**
- 4) All of these**





**Q.20. Open Source Software is ?**

- 1) Easily modified**
- 2) Not easily modified**
- 3) Paid Software**
- 4) Not free software**





**Q.21. Among these which is not open source software ?**

- 1) Linux**
- 2) Android**
- 3) Open Office**
- 4) MS Office**



**Q.22. Software that is available for Trial basis is called?**

- 1) Freeware**
- 2) Open Source**
- 3) Nagware**
- 4) Shareware**



**Q.23. Example of Shareware software is /are?**

- 1) MS Word**
- 2) MS Excel**
- 3) MS PowerPoint**
- 4) Antivirus**



**Q.24. Software that tries users to buy a program, service, etc. by making pop-ups is called?**

- 1) Freeware**
- 2) Malware**
- 3) Nagware**
- 4) Firmware**



**Q.25. A program that provides software interface to hardware devices is called.?**

- 1) System Software**
- 2) Application Software**
- 3) Device Drivers**
- 4) All of these**



**Q.26. It is the process of collecting all the scattered files & folders.?**

- 1) Fragmentation**
- 2) Defragmentation**
- 3) Disk Cleanup**
- 4) Disk Check**



**Q.27. It is the illegal reproduction and distribution of software application.?**

**1) Sorting**

**2) Piracy**

**3) Cracker**

**4) Virus**





**Q.28. Which of the following software can't be categorized application software.?**

- 1) DBM**
- 2) MS-DOS**
- 3) Spreadsheet**
- 4) Word processing**





**Q.29. What is the alternative name for application software.?**

- 1) End-user software**
- 2) Utility software**
- 3) Specific software**
- 4) All of these**



### **Q.30. Application software.?**

- 1) Performs a specific task for computer users**
- 2) Includes programs designed to help programmers**
- 3) Is used to control the operating system**
- 4) All of these**



**Q.31. In computer operating system and utility programs are examples of.?**

- 1) System software**
- 2) Device drivers**
- 3) Application software**
- 4) Customized software**



**Q.32. A part of computer system that consist of data on computer instructions.?**

- 1) Software**
- 2) Chip**
- 3) Hardware**
- 4) DOS**



**Q.33. Special purpose software are.?**

- 1) Application software**
- 2) System software**
- 3) Utility software**
- 4) None of the above**



**Q.34. Translator is a low level programming language, which is known as .?**

- 1) Compiler**
- 2) Assembler**
- 3) Loader**
- 4) Linker**



**Q.35. Which of the following is not an example of system software.?**

- 1) Language Translator**
- 2) Utility Software**
- 3) Communication Software**
- 4) Word Processors**





**Q.36. What do you call a program in execution.?**

- 1) Command**
- 2) Process**
- 3) Task**
- 4) Instruction**





**Q.37. OSS stands for.?**

- 1) Open System Service**
- 2) Open Source Software**
- 3) Open System Software**
- 4) Open Synchronized Software**



**Q.38. Set of programs which consist of full documentation.?**

- 1) Software Package**
- 2) System Software**
- 3) Utility Software**
- 4) File package**



**Q.39. The software substituted for hardware and stored in ROM.?**

- 1) Synchronous Software**
- 2) Package Software**
- 3) Firmware**
- 4) Middleware**



**Q.40. A “glue” between client and server parts of application.?**

- 1) Middleware**
- 2) Firmware**
- 3) Package**
- 4) System Software**



**Q.41. Storage of firmware is.?**

- 1) Cache Memory**
- 2) RAM**
- 3) External**
- 4) ROM**



**Q.42. A software that lies between the OS and the applications running on it.?**

- 1) Firmware**
- 2) Middleware**
- 3) Utility Software**
- 4) Application Software**



**Q.43. A type of middleware that allows for between the built-in applications and the real-time OS.?**

- 1) Firmware**
- 2) Database middleware**
- 3) Portals**
- 4) Embedded Middleware**





**Q.44. Which of the following is group of programs.?**

- 1) Accessories**
- 2) Paint**
- 3) Word**
- 4) All of above**





**Q.45. Users write the programs in which language.?**

- 1) Low-level Language**
- 2) High-Level Language**
- 3) Decimal-Format**
- 4) Middle-Level Language**



**Q.46. Which computer program accepts the high-level language and converts it into assembly language.?**

- 1) Interpreter**
- 2) Linker**
- 3) Assembler**
- 4) Compiler**



**Q.47. Does the compiler program translate the whole source code in one step.?**

- 1) No**
- 2) Depends on the Compiler**
- 3) Don't Know**
- 4) Yes**



**Q.48. Compiler translates High level language into.?**

- 1) Machine Language**
- 2) Binary Language**
- 3) Both of these**
- 4) None of these**



**Q.49. Which refers to any program that is not copy righted.?**

- 1) Freeware**
- 2) Shareware**
- 3) Open Source Software**
- 4) Public Domain Software**



**Q.51. It is the software which comes with the permission for people to redistribute copies for a limited period.?**

- 1) Freeware**
- 2) Shareware**
- 3) Open Source Software**
- 4) Public Domain Software**



**Q.52. Linux is a type of.?**

- 1) Freeware**
- 2) Shareware**
- 3) Open Source Software**
- 4) Public Domain Software**





**Q.53. It is a combination of software permanently stored in the memory.?**

- 1) Freeware**
- 2) Shareware**
- 3) Open Source Software**
- 4) Firmware**





**Q.54. It represents the majority of software purchased from software publishers.?**

- 1) Commercial Software**
- 2) Proprietary Software**
- 3) Open Source Software**
- 4) Firmware**



**Q.55. Which of the following software is also called as Closed Source Software.?**

- 1) Commercial Software**
- 2) Proprietary Software**
- 3) Open Source Software**
- 4) Firmware**



**Q.56. Which of the following is System Software.?**

- 1) MS Word**
- 2) MS Excel**
- 3) Adobe Photoshop**
- 4) Windows 7**



**Q.57. Which of the following is not an open source software.?**

- 1) LibreOffice**
- 2) Microsoft Office**
- 3) VLC Media Player**
- 4) MySQL**



**Q.58. The term FOSS is related with.?**

- 1) Proprietary Software**
- 2) Open Source Software**
- 3) Both of these**
- 4) None of these**

**Free & Open Source Software**



**Q.59. It is a bond between Publisher & User.?**

- 1) Copyright**
- 2) Piracy**
- 3) Software**
- 4) EULA**



**Q.60. Customized Software is called.?**

- 1) Horizontal Software**
- 2) Vertical Software**
- 3) Open Source Software**
- 4) Freeware**





# Malware = Malicious Software





# ABOUT COMPUTER VIRUS

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- **VIRUS stands for** – Vital Information Resource Under Seize
- A computer virus is a computer program that can **copy itself** and infect a computer without the permission or knowledge of the owner.

# TYPES OF COMPUTER VIRUS

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**Time Bomb**

**Logical Bomb**

**Worm**

**Boot Sector Virus**

**Macros Virus**

**Script Virus**

**Trojan Horse**

# Types of Antivirus Software



Quick Heal

kaspersky



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# VIRUS / Malicious Code

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- ✓ Malware stands for : **Malicious Software**
- ✓ Malware that copies itself and infects your computer and files : **VIRUS**
- ✓ A virus that can delete anti-virus software is called a : **Retrovirus**
- ✓ The virus that spread in application software is called as : **Macro virus**

# VIRUS / Malicious Code

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- ✓ What is the first boot sector virus : **Brain**
- ✓ What is the name of first computer virus :  
**Creeper**
- ✓ The pattern that can be used to identify a virus is known as : **Virus Signature**
- ✓ Malware that self-replicates and sends itself to other computers in your network : **Worm**

# VIRUS / Malicious Code

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- ✓ Software that pretends to be useful but is really malware :

**Trojan horse**

- ✓ When cybercriminals try to get sensitive information from you, like credit card numbers and passwords : **Phishing**
- ✓ IP Address/ DNS/ E-Mail (Related Crime) : **Spoofing**



# VIRUS / Malicious Code

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- ✓ Unsolicited Bulk Email : **Spam**
- ✓ Unwanted junk mass e-mail : **Spam**
- ✓ A person who gains illegal access to a computer system is called a : **Hacker**
- ✓ It is a hole in software left by designer : **Trap Door**
- ✓ During a particular date or time occurs virus called as : **Time Bomb**

# SPOOFING, SNIFFING & SPOOLING

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**Spoofing** (चकमा देना) : Emails,  
Phone Calls, Websites, IP Spoofing

**Sniffing** (सूँघना) : Capturing all the  
Packets (Sniffers), tapping phone  
wires. (Protect = VPN)

**Spooling** (Simultaneous Peripheral  
Operations Online) = Printer



# RANSOMWARE

- ✓ It is a **MALWARE**
- ✓ Infects a computer and **restricts users' access**.
- ✓ Ransom is **paid to unlock** it.
- ✓ Cybercriminals demand that the **victims pay a ransom in order to regain access** to their computer or data.



# RANSOMWARE

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**! YOUR FILES ARE ENCRYPTED**  
Your photos, documents and other important  
files have been encrypted with unique key,  
generated for this computer.  
**NEXT**

- ✓ **First Ransomware** = AIDS Trojan
- ✓ **Year** = 1989
- ✓ **By** = Joseph L. Popp (Harvard-trained evolutionary biologist )
- ✓ **Example** = WannaCry, CryptoLocker, CryptoWall, Locky, and TeslaCrypt.

# First VIRUS



- ✓ Name = Creeper
- ✓ Founder = Bob Thomas
- ✓ Written in = 1971

# First Boot Sector VIRUS



- ✓ Name = Brain
- ✓ Founder = Basit and Amjad Farooq Alvi
- ✓ Written in = 1986
- ✓ For = IBM PC

# ILOVEYOU VIRUS



- ✓ Also Called = Love Bug
- ✓ Spread Through = E-mail
- ✓ Year = 2000
- ✓ Founder = Onel De Guzman



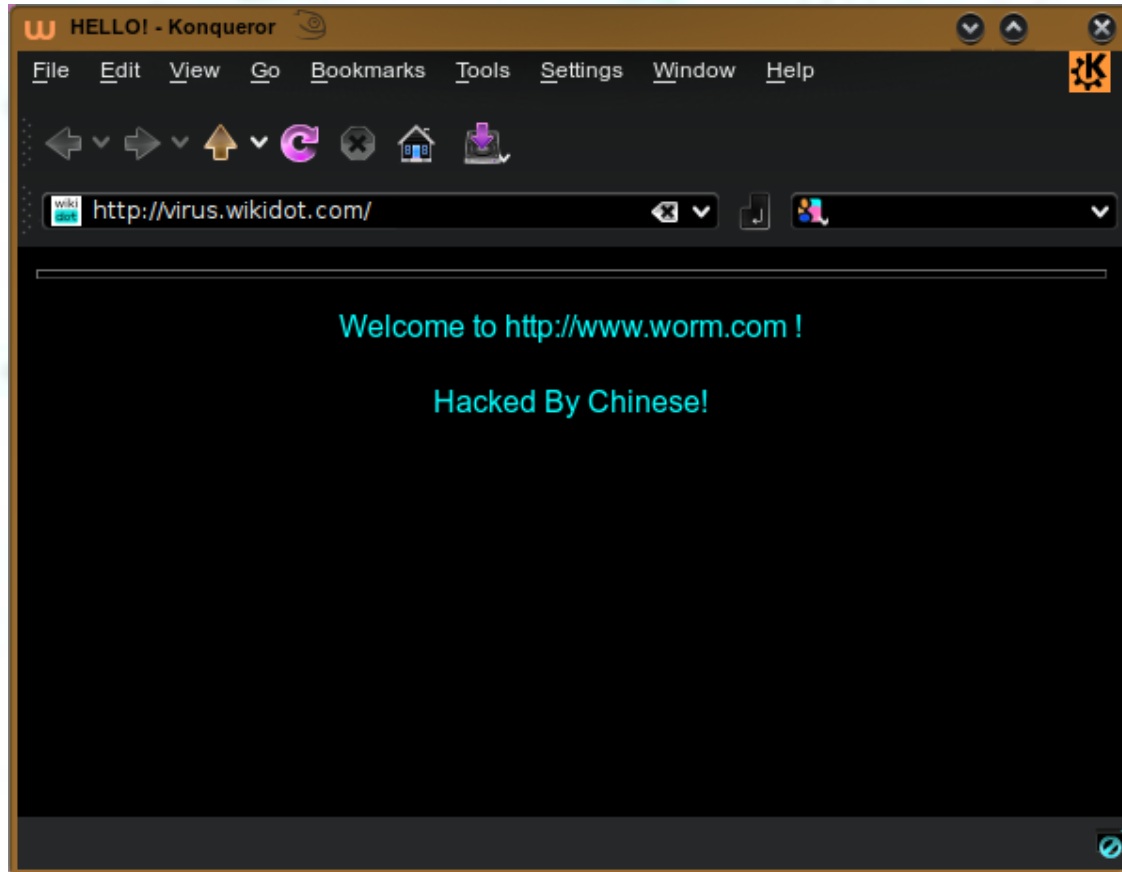
**What is Skimming** : A credit card skimming device reads the magnetic stripe on your credit or debit card when you slide it into a card reader at an ATM, gas pump or other point of sale

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**Code red:** Computer WORM = July 15, 2001 =  
attacked computers running Microsoft's IIS web  
server = text string "Hacked by Chinese!"



# Cyber Security Tool

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- **Firewalls**
- **Antivirus**
- **Antimalware**
- **Encryption Tools**
- **VPN = Virtual Private Network**
- **Strong passwords**





# Malware MCQ

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**Q.1. Name the recent spyware that can stealthily enter a smartphone and gain access to everything on it, including its camera and microphone.?**

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- 1) Ransomware**
- 2) Trojan Horse**
- 3) Wannacry**
- 4) Pegasus**



**Q.2. Pegasus spyware enters in which Operating System.?**

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- 1) Android**
- 2) Blackberry**
- 3) iOS**
- 4) All of these**

### Q.3. Who developed Pegasus spyware.?

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- 1) DARPA
  - 2) ISO
  - 3) NSO
  - 4) CERN
- Pegasus is = spyware developed by the Israeli cyberarms firm NSO Group
  - Pegasus = 'zero-click' hack

NSO standing for Niv, Shalev and Omri, the names of the company's founders





**Q.4. Pegasus spyware was discovered in which year.?**

- 1) 2014
- 2) 2015
- 3) 2016**
- 4) 2019



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**Q.5. These are called Unethical Hacker or a Security Cracker.?**

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- 1) Black Hat Hacker**
- 2) White Hat Hacker**
- 3) Grey Hat Hacker**
- 4) Orange Hat Hacker**

**Q.6. These are called Ethical Hackers or a Penetration Tester & they are legal & have permission to hack the system.?**

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- 1) Black Hat Hacker**
- 2) White Hat Hacker**
- 3) Grey Hat Hacker**
- 4) Orange Hat Hacker**

**Q.7. They can hack any system even if they don't have permission to test the security of the system but they will never steal money or damage the system.?**

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- 1) Black Hat Hacker**
- 2) White Hat Hacker**
- 3) Grey Hat Hacker**
- 4) Orange Hat Hacker**



**Q.8. Which of the following malware do not replicate or reproduce.?**

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- 1) Worms
- 2) Trojans
- 3) Viruses
- 4) Rootkits

**Q.9. Key logger is a .?**

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- 1) Firmware**
- 2) Antivirus**
- 3) Spyware**
- 4) Firmware**



**Q.10. Firewalls are used to protect against .?**

- 1) Data driven attacks**
- 2) Fire attacks**
- 3) Virus attacks**
- 4) Unauthorized access**

**Q.11. When a logic bomb is activated by a time related event, it is known as .?**

**Arora Educator**



- 1) Virus**
- 2) Trojan horse**
- 3) Hacking**
- 4) Time bomb**

**Q.12. The altering of data so that it is not usable unless the changes are undone is .?**

**Arora Educator**



- 1) Ergonomics**
- 2) Compression**
- 3) Biometrics**
- 4) Encryption**



## Q.13. VIRUS stands for.?

- 1) Very Intelligent Result Until Source
- 2) Very Interchanged Resource Under Search
- 3) Vital Information Resource Under Seize
- 4) Viral Important Record User Searched

**Q.14. Which of the following is not a cloud based storage solutions.?**

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- 1) Dropbox**
- 2) Google Drive**
- 3) OneDrive**
- 4) McAfee**



**Q.15. It is stealing ideas or creations of others.?**

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**1) Plagiarism**

**2) Intellectual property rights**

**3) Piracy**

**4) Trojan**





**Q.16. Which of the following is the type of software that has self-replicating software that causes damage to files and system.?**

**Arora Educator**



- 1) Viruses**
- 2) Trojan horses**
- 3) Bots**
- 4) Worms**

**Q.17. Which of the following is a software that, once installed on your computer, tracks your internet browsing habits and sends you popups containing advertisements related to the sites and topics you've visited.?**

**Arora Educator**



- 1) Backdoors**
- 2) Adware**
- 3) Malware**
- 4) Bots**

**Q.18. What is the software called that's designed to exploit a computer user and is a broad term covering computer viruses, worms, Trojan, adware, etc.?**

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- 1) Backdoors**
- 2) Key-logger**
- 3) Malware**
- 4) Bots**

**Q.19. They are computer programs that are designed by attackers to gain administrative access to your computer.?**

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**1) Backdoors**

**2) Rootkits**

**3) Malware**

**4) Antiware**

**Q.20. The attack that focuses on capturing small packets from the network transmitted by other computers .?**

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- 1) Phishing
- 2) Eavesdropping
- 3) Scams
- 4) Exploits

**Q.21. To protect yourself from computer hacker, you should turn on a.?**

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- 1) Firewall**
- 2) Script**
- 3) Antivirus**
- 4) VLC**

**Q.22. Secret words or numbers used for protection of devices is called.?**

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- 1) Biometrics Data**
- 2) Backup**
- 3) Passwords**
- 4) Private Words**



**Q.23. Person who gains illegal access to a computer system is known as.?**

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- 1) Hacker**
- 2) Cracker**
- 3) Pirate**
- 4) Thief**



**Q.24. Which malware has Short for "robot network".?**

- 1) Ronets
- 2) Botnets**
- 3) Botwork
- 4) Rowork

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**Q.25. When a person is harassed repeatedly by being followed ,called or be written to he /she is a target of.?**

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- 1) Bullying**
- 2) Stalking**
- 3) Identity theft**
- 4) Phishing**

**Q.26. WPA2 is used for security in.?**

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- 1) Ethernet
- 2) Bluetooth
- 3) Wi-Fi
- 4) LAN

**Q.27. Pretty good privacy (PGP) is used in.?**

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- 1) Browser Security
- 2) Email Security
- 3) FTP Security
- 4) Search Engine



**Q.28. When was IT act notified.?**

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**1) 2008**

**2) 1999**

**3) 2000**

**4) 1997**

**Q.29. IT act amended in which year.?**

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**1) 2008**

**2) 1999**

**3) 2000**

**4) 1997**



**Q.30. CFAA stands for .?**

- 1) Computer Fraud and Abuse Act**
- 2) Cyber Fraud and Abuse Act**
- 3) Cyber Fraud Activity Analysis**
- 4) Cyber Fraud Activity Act**



**Q.31. Which is an automated software program.**

- 1) IRC**
- 2) P2P**
- 3) Fos**
- 4) Bots**

**Arora Educator**







**Q.32. DDOS is.?**

- 1) Distribution of service**
- 2) Duplication of work**
- 3) Cyber attack**
- 4) Distributed Denial of service**

**Q.33. Systems in a botnet are also called as.?**

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- 1) Robots**
- 2) Firewall**
- 3) Malware**
- 4) Zombies**

**Q.34. It is a discipline that combines elements of law and computer science to collect and analyze information .?**

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- 1) Cyber crime**
- 2) Cyber forensics**
- 3) Cyber for science**
- 4) Ethical hacking**

**Q.35. Electronic transfer of illegally obtained money with the goal of hiding its source & destination.?**

- 1) Cyber laundering**
- 2) Assault by a threat**
- 3) Cyber contraband**
- 4) Cyber stalking**

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**Q.36. The use of computer networks to create, distribute or access materials that sexually exploit underage children is known as.?**

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- 1) Assault by a threat**
- 2) Cyber contraband**
- 3) Cyber stalking**
- 4) Child pornography**

**Q.37. Attempt to gain or change IP Address or DNS is called.?**

**Arora Educator**



- 1) Sniffing
- 2) Spoofing
- 3) Phishing
- 4) Spooling



**Q.38. Among these Name the Antivirus.?**

- 1) Norton**
- 2) AVG**
- 3) Panda**
- 4) All of these**





**Q.39. Name the First Ransomware.?**

- 1) AIDS**
- 2) PC Cyborg**
- 3) Both of these**
- 4) Wanna Cry**



**Q.40. Type of Virus that keeps changing type & signature of VIRUS.?**

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- 1) Ransomware
- 2) Polymorphic
- 3) Boot Sector
- 4) WORM

**Q.41. Which of the following is known as Malicious software.?**

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- 1) Illegal ware
- 2) Bad ware
- 3) Malware
- 4) Malicious ware

**Q.42. What is the first computer worm.?**

- 1) The Morris worm**
- 2) The Babbage worm**
- 3) The Tomlinson worm**
- 4) The Big worm**

**Robert Morris**

**Arora Educator**





**Q.43. Name the First VIRUS.?**

- 1) Creeper**
- 2) Reaper**
- 3) Brain**
- 4) Trojan Horse**

**Q.44. Name the First Boot Sector VIRUS.?** **Arora Educator**



- 1) Creeper
- 2) Reaper
- 3) Brain
- 4) Ransomware



**Q.45. MacAfee is an example of .?**

- 1) Photo editing software**
- 2) Quick heal**
- 3) Virus**
- 4) Antivirus**

**Q.46. Software pretend to be useful but actually not.?**

**1) Trojans**

**2) Viruses**

**3) Worm**

**4) Adware**

**Arora Educator**





**Q.47. Unsolicited commercial email is.?**

**Arora Educator**



- 1) Spyware**
- 2) Malware**
- 3) Virus**
- 4) Spam**



**Q.48. Viruses which executes when computer starts is .?**

- 1) Macro**
- 2) File Infector**
- 3) Boot Sector**
- 4) Macro Virus**

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**Q.49. The virus that spread in application software is called as.?**

**Arora Educator**



- 1) Boot virus
- 2) Macro virus
- 3) File virus
- 4) Anti virus

**Q.50. Name the self replicating software.?** **Arora Educator**



- 1) **VIRUS**
- 2) **WORM**
- 3) **Antivirus**
- 4) **Brain**

**Q.51. Name the VIRUS that deploy & stay in RAM.?**

- 1) Resident Virus**
- 2) Non Resident Virus**
- 3) Crypto Virus**
- 4) Defacto Virus**

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**Q.52. Name the VIRUS that deploy in RAM but not stay in RAM.?**

**Arora Educator**



- 1) Resident Virus
- 2) Non Resident Virus
- 3) Crypto Virus
- 4) Defacto Virus

**Q.53. Name that Malware technique which take credit card or debit card information .?**

**Arora Educator**



- 1) Phishing**
- 2) Trojan**
- 3) Ransom**
- 4) Bitcoin**

**Q.54. Name the attack in which attackers overload computing or network resources .?**

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- 1) Distribution of service**
- 2) Duplication of work**
- 3) Cyber attack**
- 4) Denial of service**



**Q.55. \_\_\_\_\_ monitor the user activity on internet and transmit the information in the background someone else.?**

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- 1) Malware**
- 2) Adware**
- 3) Trojan**
- 4) Sniffer**



**Q.56. It is the action of recording the keys struck on a keyboard.?**

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- 1) Denial of service**
- 2) Exploits**
- 3) Scams**
- 4) Key logging**

**Q.57. What kind of attempts is made by individuals to obtain confidential information from a person by falsifying their identity.?**

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- 1) Computer Viruses**
- 2) Spyware Scams**
- 3) Phishing Scams**
- 4) Trojan Horse**

**Q.58. Which of the following is/are the common targets of Injection Vulnerabilities.?**

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- 1) SQL**
- 2) XML parsers**
- 3) Program arguments**
- 4) BOTS**

**Q.59. \_\_\_\_\_ is a type of malware that takes your data hostage until you pay a fee to release it.? Arora Educator**



- 1) Ransomware**
- 2) Phishing software**
- 3) Hacking software**
- 4) Kidnapping software**

**Q.60. It was a computer worm observed on the Internet on July 15, 2001. It attacked computers running Microsoft's IIS web server.?**

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- 1) Creeper**
- 2) I Love You**
- 3) Ransomware**
- 4) Code Red**

**Q61. It is the practice of protecting systems, networks, and programs from digital attacks.?**

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- 1) Rootkits**
- 2) Polymorphism**
- 3) Detherring**
- 4) Cybersecurity**



**Q.62. It is a code injection technique used to attack data-driven applications.?**

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- 1) WORM Injection
- 2) SQL Injection
- 3) DDOS Injection
- 4) Malware Injection





**Q.63. Viruses are.?**

- 1) Naturally occur**
- 2) Machine made**
- 3) Man made**
- 4) All of these**



**Q.64. What are the common cyber-attacks which can be used by hackers to damage network.?**

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- 1) Phishing & Password attacks**
- 2) Malware & Malvertising**
- 3) DDoS & Drive-by downloads**
- 4) All of these**



**Q.65. Phishing is a form of.?**

- 1) Impersonation**
- 2) Spamming**
- 3) Identify Theft**
- 4) Scanning**

**Impersonation is when someone pretends to be another person**

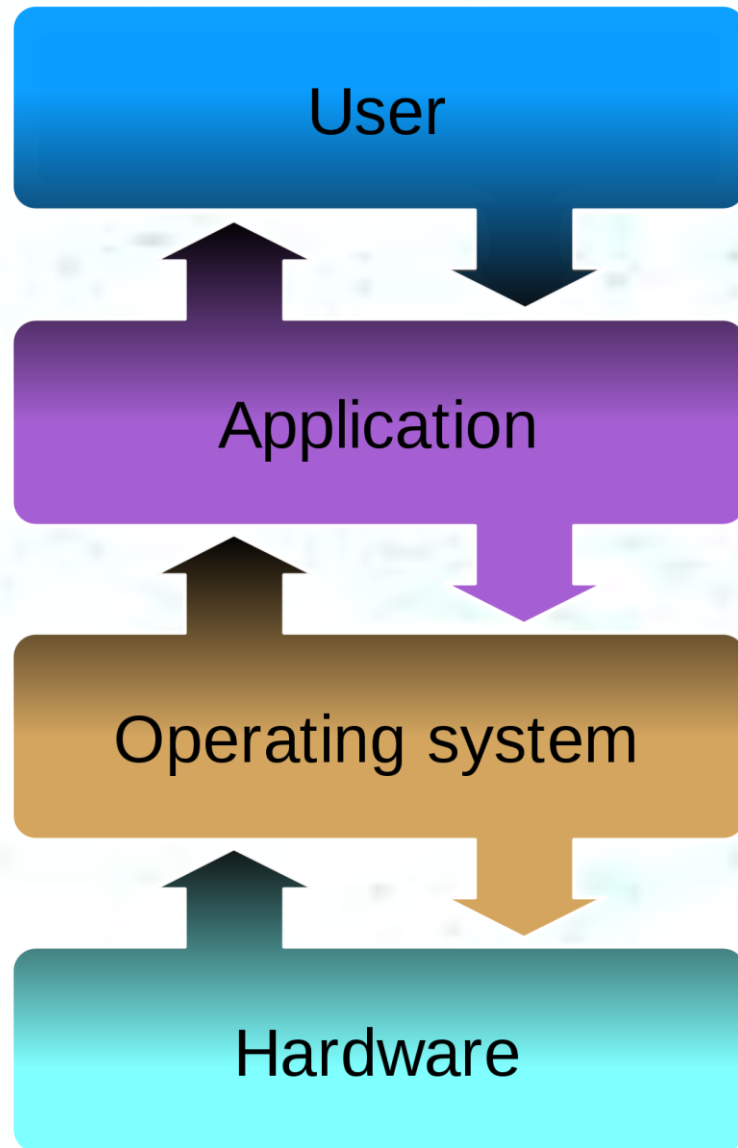
# Operating System

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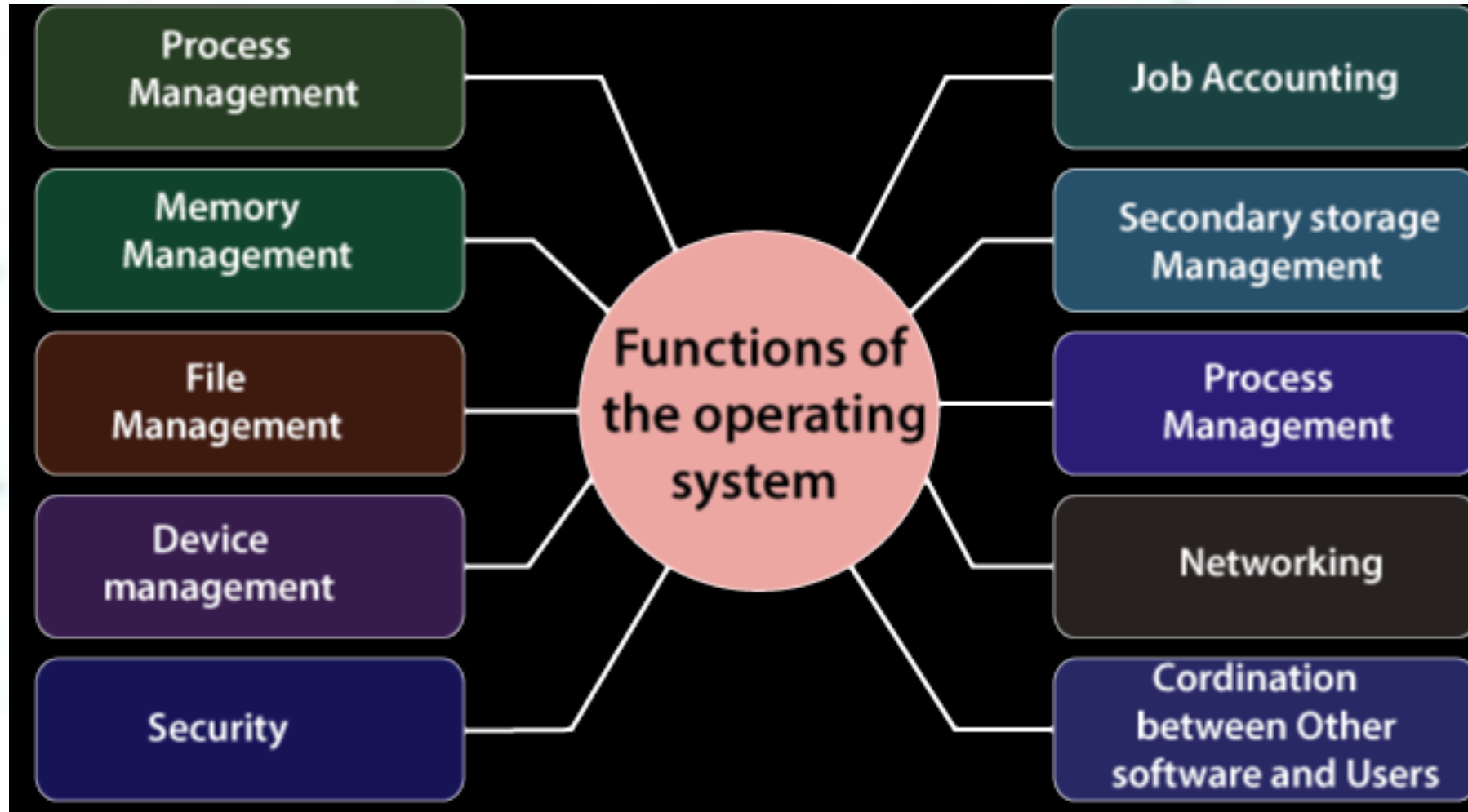
# What is Operating System

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# Operating System Functions

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# OS

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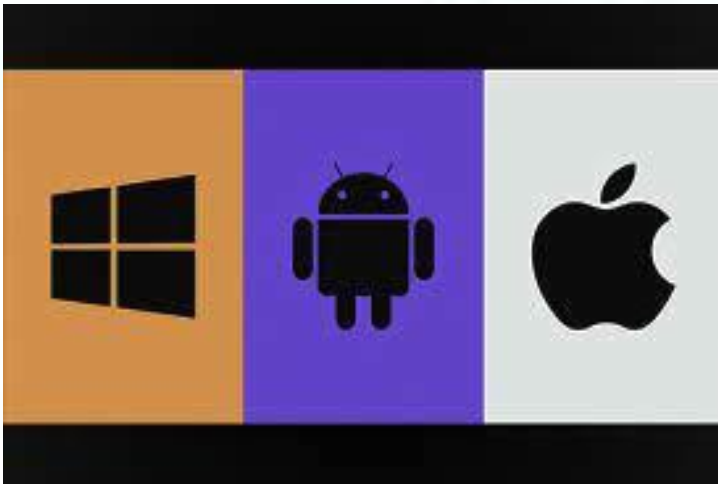
- ✓ **Software = System Software**
- ✓ **Interface b/w = User & Hardware**
- ✓ **Interface b/w = Application Software & Hardware**
- ✓ **First OS = 1956**
- ✓ **First OS Name = GMOS**
- ✓ **GMOS = General Motors OS**
- ✓ **First OS Ran on machine = IBM 701**
- ✓ **Father of OS = Gary Kildall = CP/M OS = Control Program for Microcomputers = 1974**

# Mobile OS

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- ✓ **Nokia = Symbian OS**
- ✓ **Google = Android OS**
- ✓ **Microsoft = Windows OS**
- ✓ **Apple = iOS**
- ✓ **Blackberry = Blackberry OS**
- ✓ **Samsung = Bada OS**

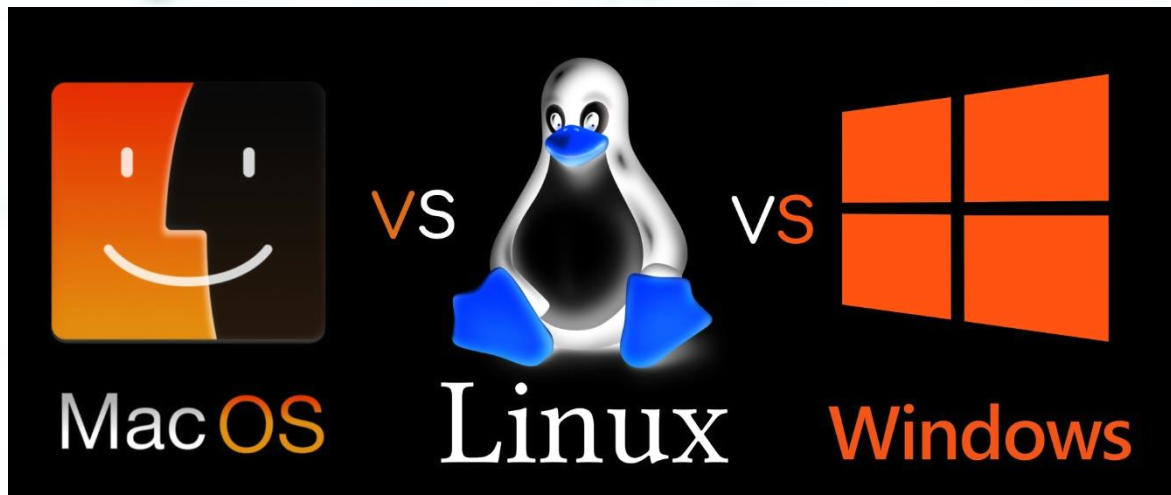


# Desktop OS

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- ✓ Microsoft = Windows
- ✓ Apple = Mac OS
- ✓ Unix
- ✓ Linux





# OS Types

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- ✓ **Single-user, Single task** = DOS, Windows 95, Windows NT, Android, iOS
- ✓ **Single-user, Multi-tasking** = Windows & MAC OS
- ✓ **Multi-user, Multi-tasking** = Unix, Linux, Ubuntu, MacOS, Windows Server, Mainframes, Windows Vista/7/8/8.1/10/11
- ✓ **Real Time Operating Systems/Embedded OS** = Fax Machines, Printers, Scanners, Routers, Robots

# Open Source OS

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- ✓ **Linux**
- ✓ **Android**
- ✓ **Open Solaris**

## Linux Versions

- 1) Debian
- 2) Fedora
- 3) Gentoo
- 4) Ubuntu
- 5) Red Hat
- 6) Kali Linux

# OS Interface

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- 1) CUI = Command Line Interface/  
Character User Interface = Keyboard =  
MS DOS
- 2) GUI = Graphical User Interface = Mouse  
& Keyboard = Windows

# Windows OS

- 1) First = Windows 1.0
- 2) Latest = Windows 11



- MS-DOS
- Windows 1.0 - 2.0
- Windows 3.0 - 3.1
- Windows 95
- Windows 98
- Windows ME = Millennium Edition
- Windows NT
- Windows 2000
- Windows XP = eXPerience
- Windows Vista
- Windows 7
- Windows 8
- Windows 10
- Windows 11

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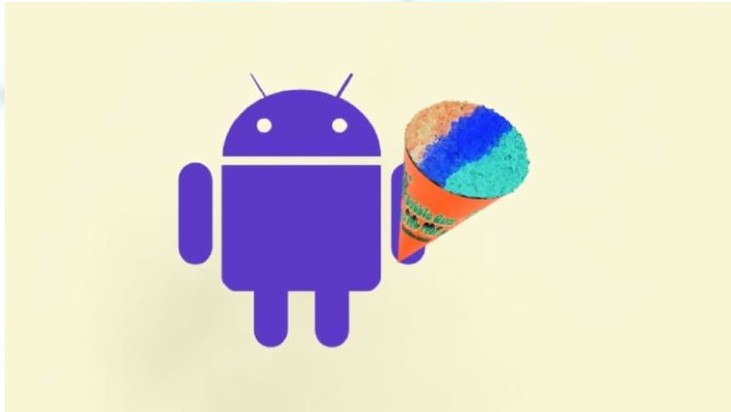


# Android OS

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- 1) First = Cupcake
- 2) Latest = Android 12 (Snow Cone)
- 3) Founder = Andy Rubin
- 4) Year = September 23, 2008





# Android OS

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- 1-2008→Android 1.0
- 2-2008→Android 1.1
- 3-2009→Android 1.5→Cupcake
- 4-2009→Android 1.6→Donut
- 5-2009→Android 2.0-2.1→Éclair
- 6-2010→Android 2.2-2.2.3→Froyo
- 7-2010→Android 2.3-2.3.7→Gingerbread
- 8-2011→Android 3.0-3.2.6→Honeycomb
- 9-2011→Android 4.0-4.0.4→Ice Cream Sandwich
- 10-2012→Android 4.1-4.3.1→Jelly Bean
- 11-2013→Android 4.4-4.4.4→KitKat
- 12-2014→Android 5.0-5.1.1→Lollipop

13-2015→Android 6.0-6.0.1→Marshmallow

14-2016→Android 7.0-7.1.2→Nougat

15-2017→Android 8.0-8.1→Oreo

16-2018→Android 9.0→Pie

17-2019→Android 10

18-2020→Android 11→Red Velvet Cake

19-2021→Android 12→Snow Cone



# Linux OS

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- 1) Founder = Linus Torvalds
- 2) Year = September 17, 1991
- 3) Open Source
- 4) Free from virus



# Apple OS

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- 1) Latest iOS = iOS 15
- 2) Latest Mac OS = macOS Monterey





# OS Facts

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- ✓ Client/server OS = Windows 2000
- ✓ My Computer = Windows 95
- ✓ OS is a collection of = Software Routines
- ✓ Real Time OS = Process Control
- ✓ Windows 8 = Not having Start button
- ✓ OS not support networking = Windows 3.1
- ✓ OS having small file name = MS DOS
- ✓ OS generates = Interrupt
- ✓ Long time no use = Hibernate Mode
- ✓ Short time no use = Sleep Mode

# OS Facts

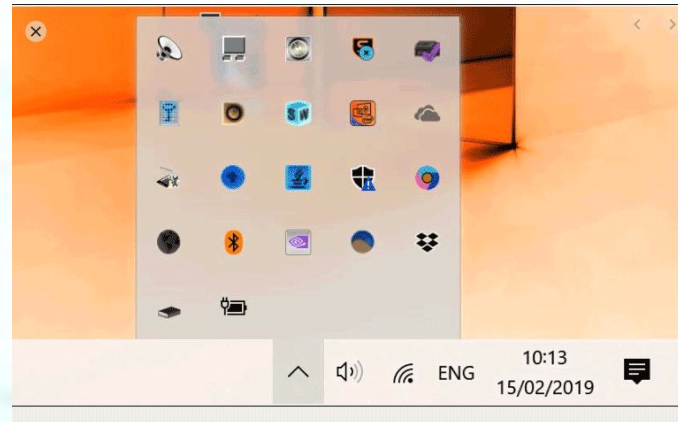
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- ✓ **Files & Folder manager = Windows Explorer**
- ✓ **Windows 11 Announce Date = August 31, 2021**
- ✓ **Windows 11 Released Date = October 5, 2021**

## Windows 11 Features =

- 1) **New start menu**
- 2) **Android apps**
- 3) **Integrated Gaming**
- 4) **Widgets**
- 5) **Microsoft Team**
- 6) **System Tray = Notification area**

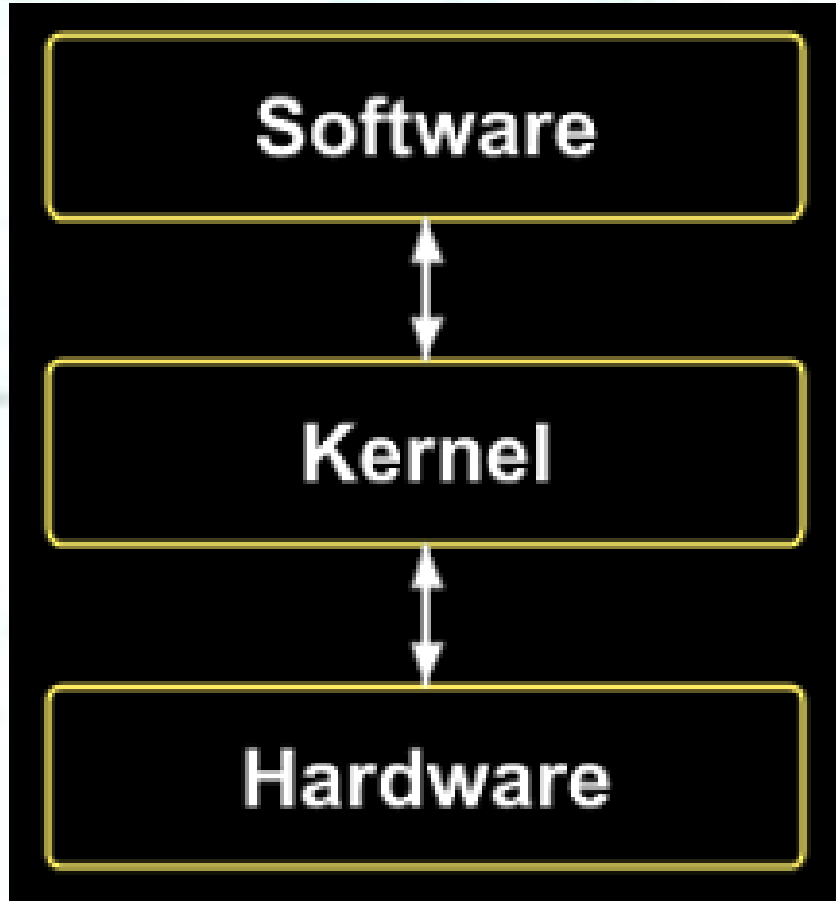


# OS : Kernel

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- ✓ Establish communication between **Software** and **Hardware**

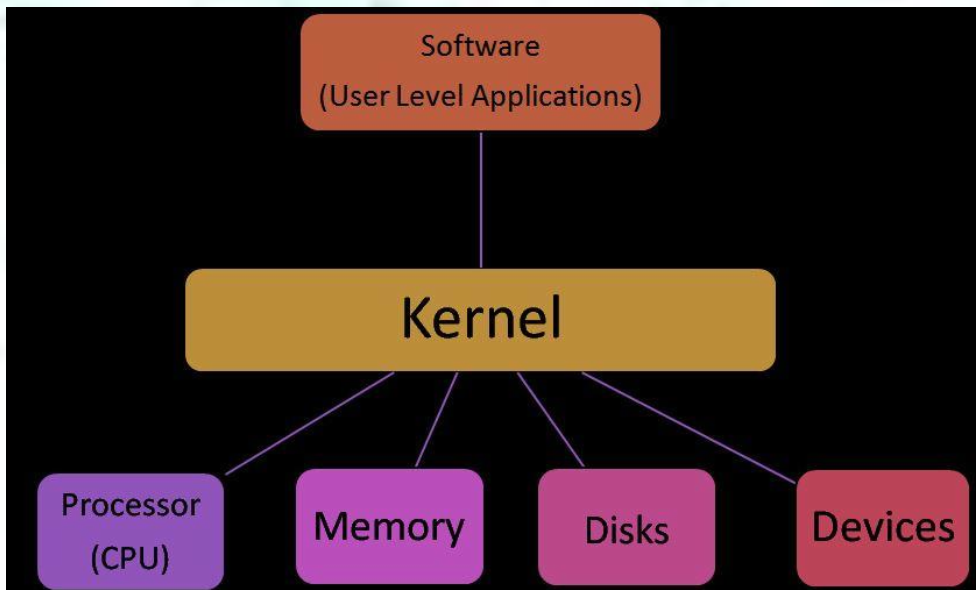


# OS : Kernel Function

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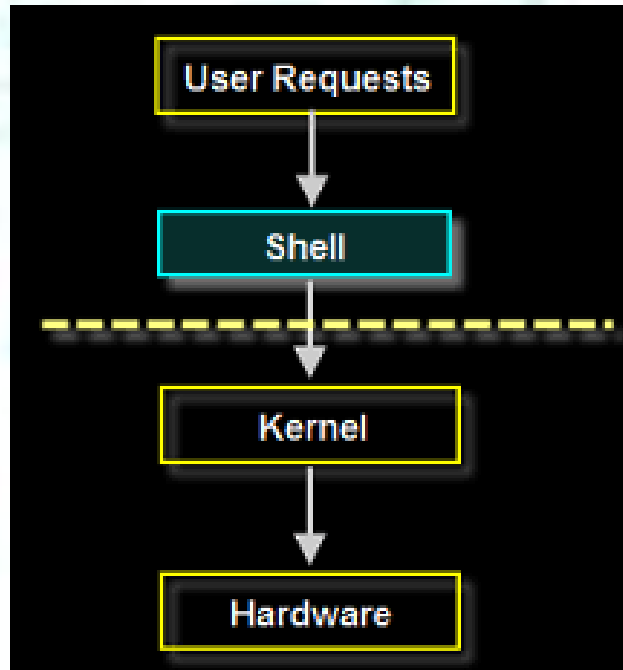
- ✓ **Process Management**
- ✓ **Memory Management**
- ✓ **Device Management**
- ✓ **Interrupt Handling**
- ✓ **Input Output Communication**



# OS : Shell



- ✓ **Command Interpreter**
- ✓ **Takes command from user & give it to OS**
- ✓ **Act as an interface b/w User & OS**



# OS : File System

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- ✓ **FAT = File Allocation Table**
- ✓ **NTFS = New Technology File System**
- ✓ **HFS = Hierarchical File System**
- ✓ **EXT = Extended File System**





# Operating System

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# OS : File System

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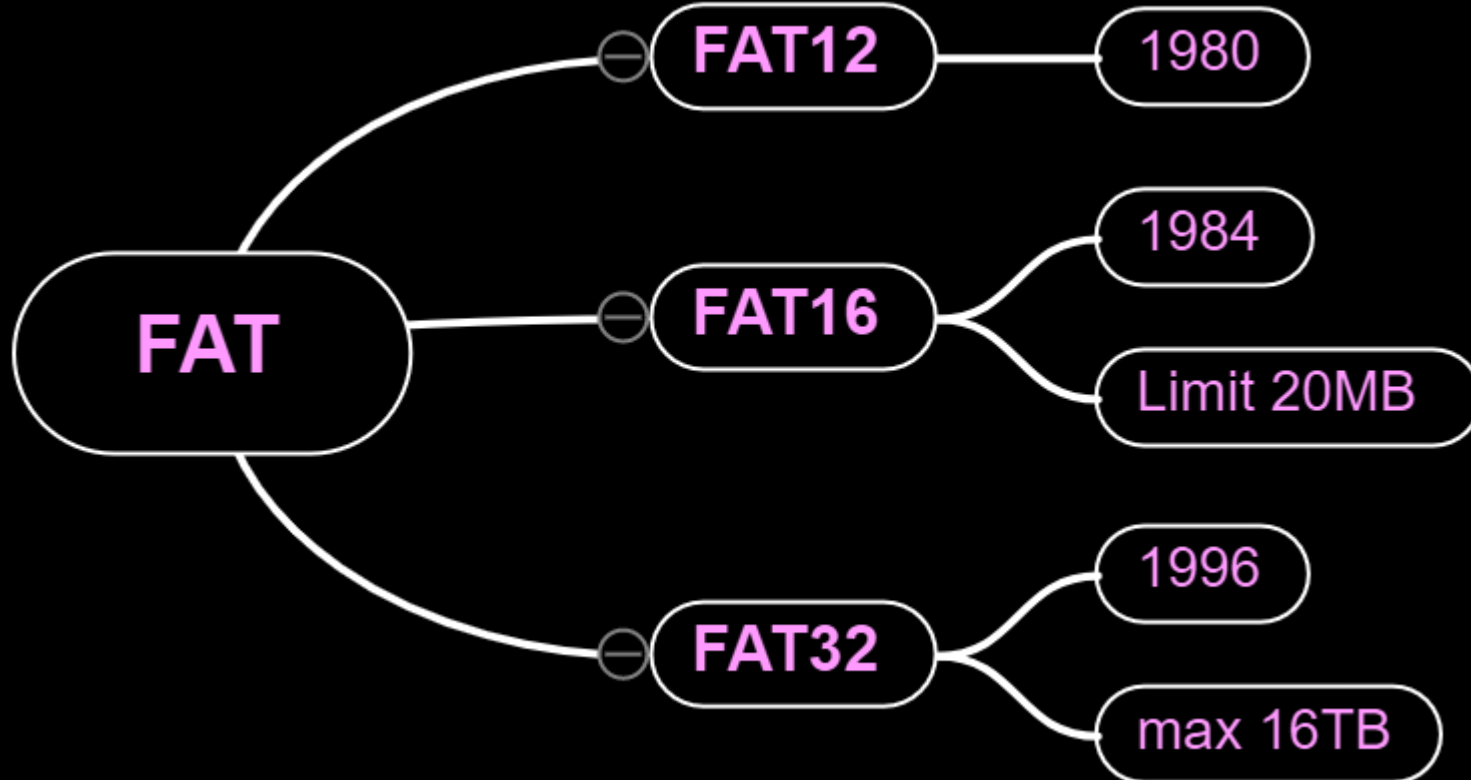
A filesystem is the **methods and data structures** that an operating system uses to **keep track of files** on a disk or partition

- ✓ **FAT = File Allocation Table**
- ✓ **NTFS = New Technology File System**
- ✓ **HFS = Hierarchical File System**
- ✓ **EXT = Extended File System**



# FAT File System

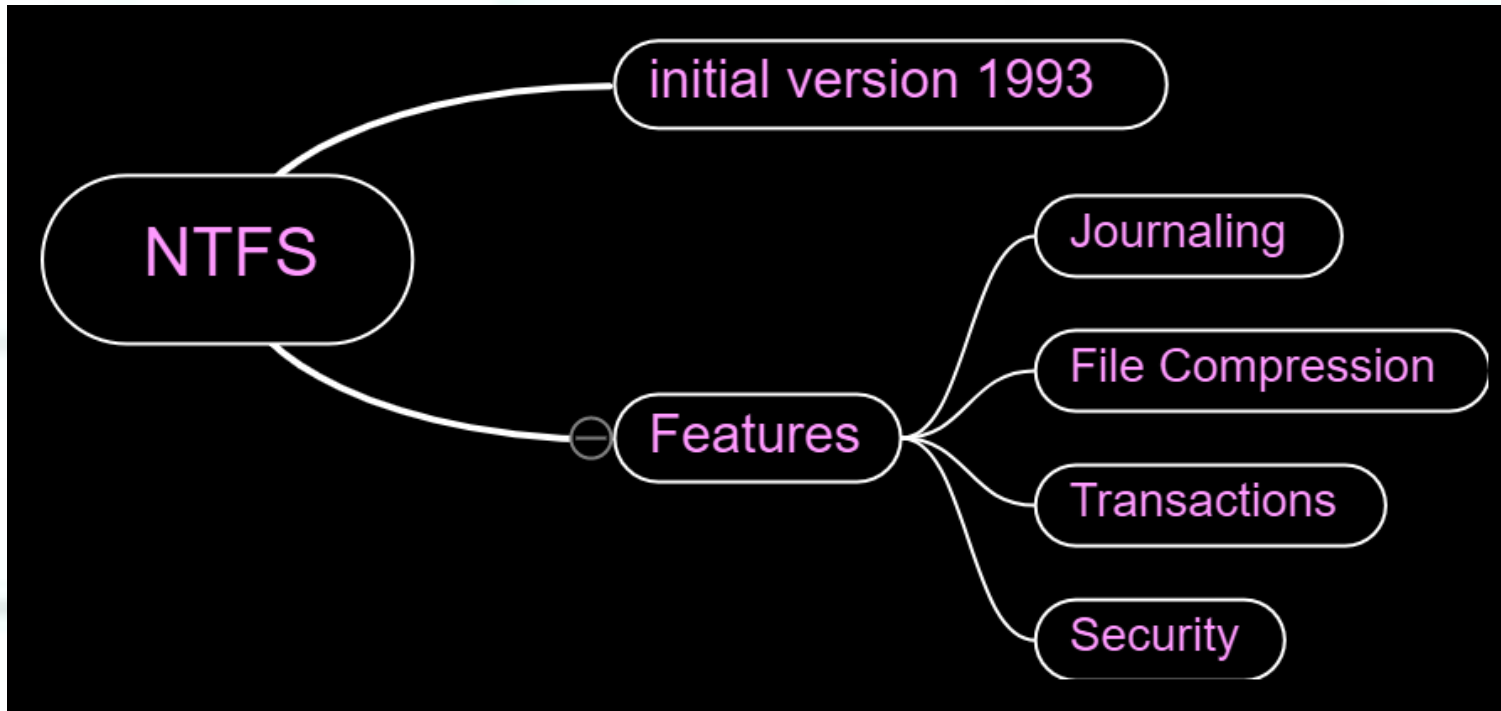
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Windows 95, MS DOS

# NTFS File System

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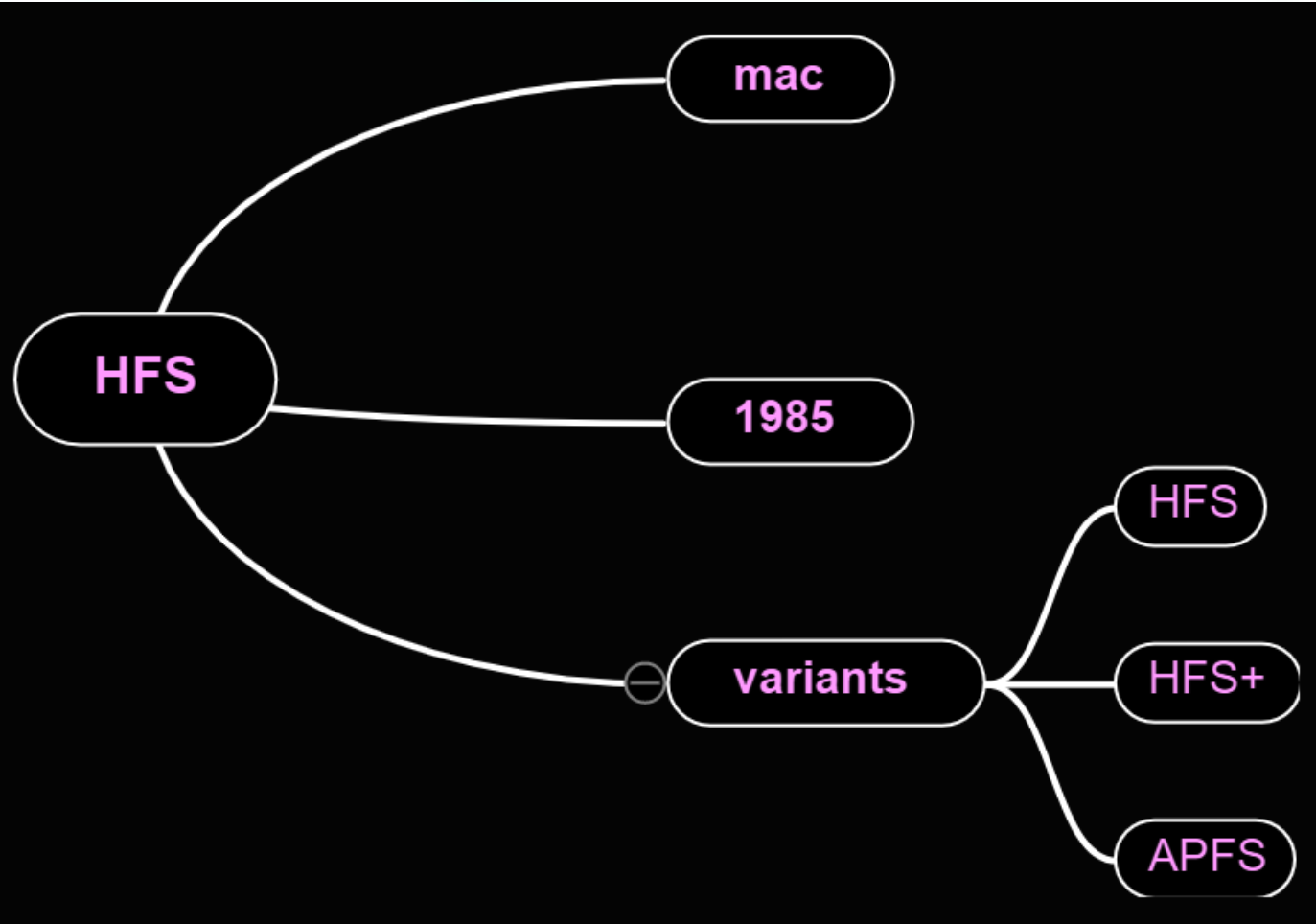


**Windows**

**NT/2000/XP/Vista/7/8/10/11**

# HFS File System

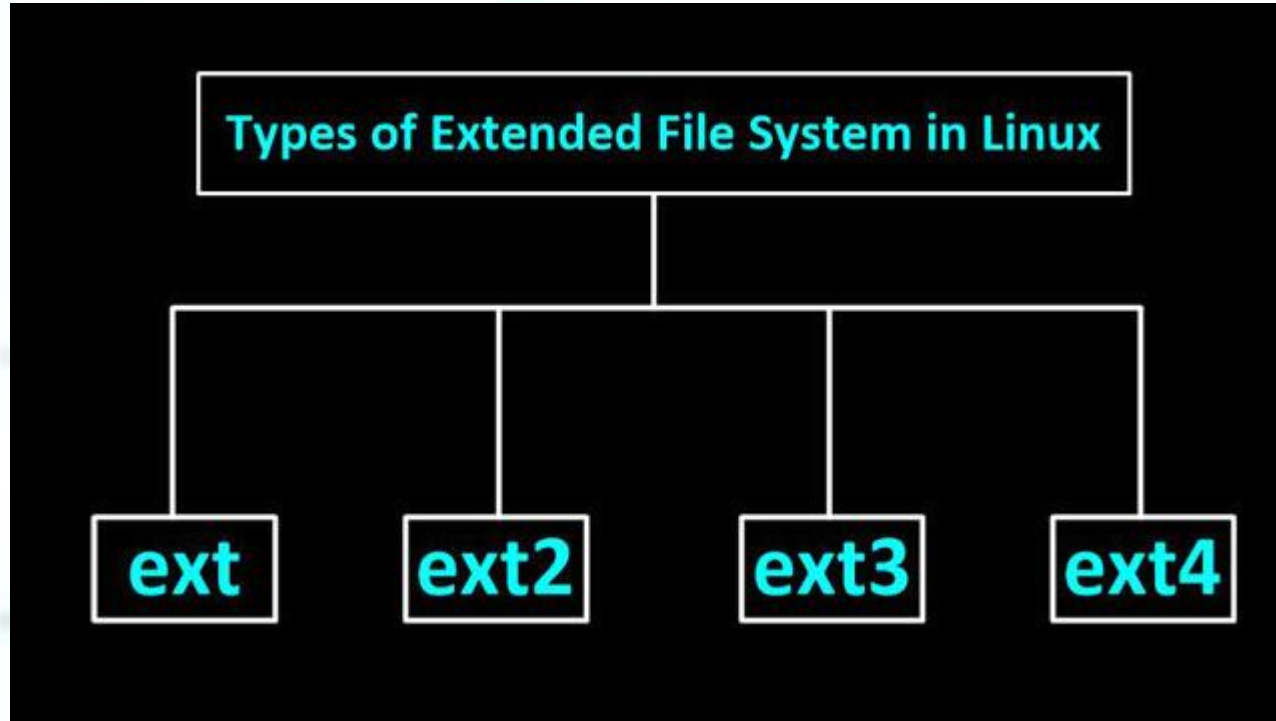
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**Apple Operating System =  
MAC OS**

# Extended File System

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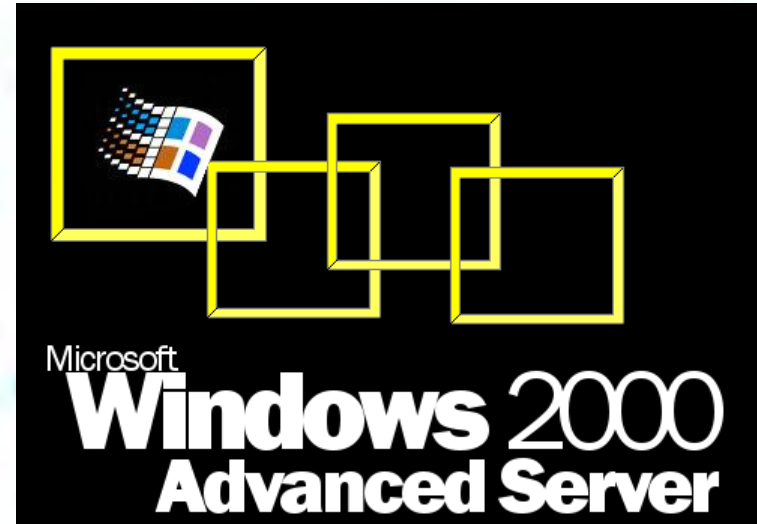


Unix & Linux Operating System



**Q.1. Which of the following operating system do you choose to implement a client server network.?**

- 1) MS DOS**
- 2) Windows**
- 3) Windows 98**
- 4) Windows 2000**





# Q.2. Which mode loads minimal set of drivers when starting Windows.?

- 1) Safe Mode
- 2) Normal Mode
- 3) VGA Mode
- 4) Network Support Mode

Safe mode is a diagnostic mode of a computer operating system

## Advanced Boot Options

Choose Advanced Options for: Windows  
(Use the arrow keys to highlight your choice.)

Repair Your Computer

Safe Mode

Safe Mode with Networking

Safe Mode with Command Prompt

## Loading Windows Files

```
Loaded: \Windows\system32\drivers\fltmgr.sys
Loaded: \Windows\system32\drivers\fileinfo.sys
Loaded: \Windows\system32\Drivers\Ntfs.sys
Loaded: \Windows\system32\Drivers\msrpc.sys
Loaded: \Windows\system32\Drivers\ksecdd.sys
Loaded: \Windows\system32\Drivers\cng.sys
Loaded: \Windows\system32\drivers\pcw.sys
Loaded: \Windows\system32\Drivers\Fs_Rec.sys
Loaded: \Windows\system32\drivers\ndis.sys
Loaded: \Windows\system32\drivers\NETIO.SYS
Loaded: \Windows\system32\Drivers\ksecpkg.sys
Loaded: \Windows\system32\drivers\tcpip.sys
Loaded: \Windows\system32\drivers\Fwpkclnt.sys
Loaded: \Windows\system32\DRIVERS\vmstorfl.sys
Loaded: \Windows\system32\DRIVERS\volsnap.sys
Loaded: \Windows\system32\Drivers\sp1dr.sys
Loaded: \Windows\system32\drivers\rdyboost.sys
Loaded: \Windows\system32\Drivers\mup.sys
Loaded: \Windows\system32\drivers\hwpolicy.sys
Loaded: \Windows\system32\DRIVERS\fvevol.sys
Loaded: \Windows\system32\DRIVERS\disk.sys
Loaded: \Windows\system32\DRIVERS\CLASSPNP.SYS
Loaded: \Windows\system32\DRIVERS\agp440.sys
```

Please wait...





**Q.3. Operating system is a collection of.?**

- 1) Software routines**
- 2) Input-output devices**
- 3) Hardware components**
- 4) All of these**



**Q.4. Which of the following is not an operating system.?**

- 1) UNIX**
- 2) MS-DOS**
- 3) CP/M**
- 4) PASCAL**





**Q.5. What is the name of the operating system that reads and reacts in terms of actual time.?**

- 1) Real time system**
- 2) Time sharing system**
- 3) Quick response system**
- 4) Batch system**



**Q.6. UNIX operating system.?**

- 1) can run on PC's and larger system**
- 2) is multitasking**
- 3) is multiuser**
- 4) all of these**



Q.7. Linux is a(n)\_\_\_\_\_operating system.?

**1) Open source**

**2) Microsoft**

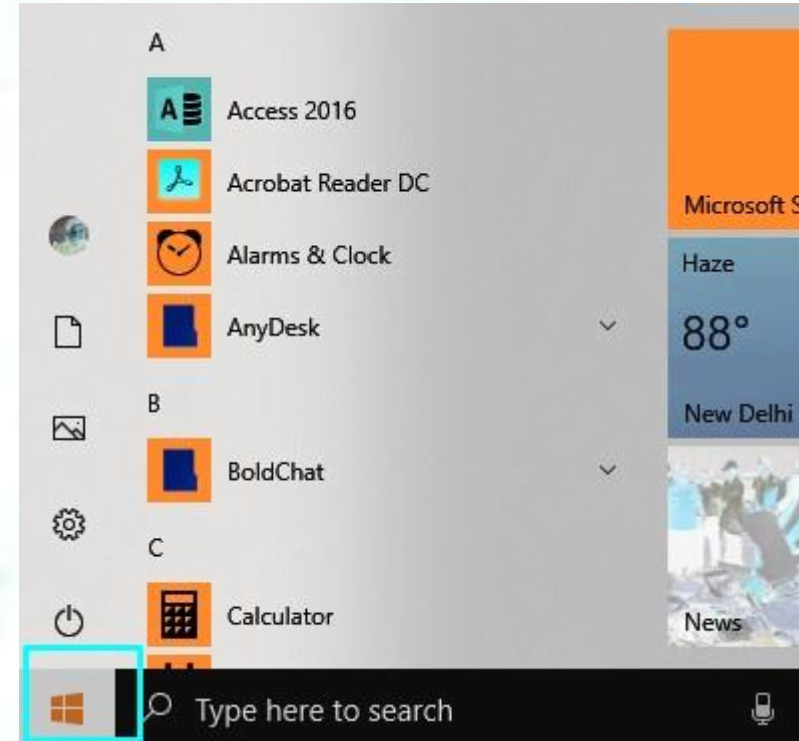
**3) Windows**

**4) Mac**



**Q.8. In Windows, start button is used to.?**

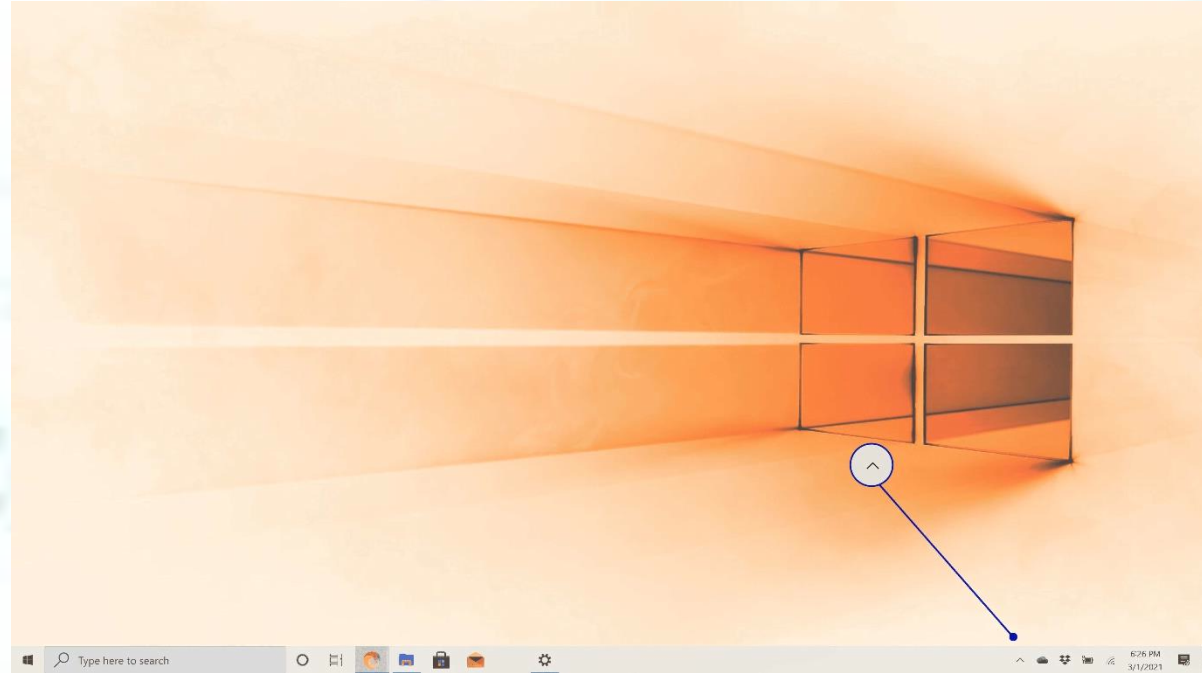
- 1) Run applications**
- 2) Device setting**
- 3) Turn off the system**
- 4) All of above**





Q.9. The date and time displays on.?

- 1) Taskbar
- 2) Status bar
- 3) System tray
- 4) Launch pad





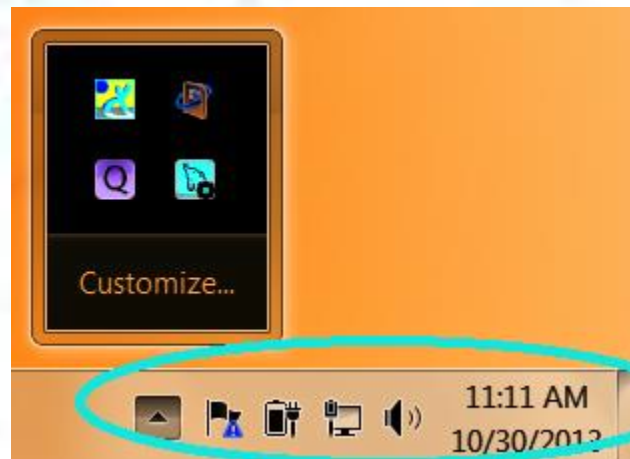
## System Tray –

Also called = Notification Area

Right side of = Windows Task Bar

Contains = Miniature icons for easy access to system functions

It Contains = antivirus settings, printer, modem, sound volume, battery status







**Q.10. It runs on computer hardware and serves as a platform for other system to run on.?**

- 1) Operating system**
- 2) Application system**
- 3) System software**
- 4) All of above**



**Q.11. It is the layer of a computer system between the hardware and the user.?**

- 1) Operating environment**
- 2) Operating system**
- 3) System environment**
- 4) None of these**





**Q.12. Which is the first program run on a computer when the computer boots up.?**

- 1) System software**
- 2) Operating system**
- 3) System operations**
- 4) None**



**Q.13. A program in execution is called.?**

- 1) A Paging**
- 2) A Process**
- 3) A virtual memory**
- 4) A Demand Page**



**Q.14. Which of the following is an example of a real-time operating system.?**

- 1) Lynx**
- 2) MS-DOS**
- 3) Windows XP**

**4) Process Control**

A process control block (PCB) is a data structure used by computer operating systems to store all the information about a process



**Q.15. Which is not application software.?**

**1) Windows NT**

**2) Page Maker**

**3) WinWord XP**

**4) Photoshop**



**Q.16. Running multiple programs at the same time is called.?**

- 1) Multitasking**
- 2) Foreground tasking**
- 3) Single tasking**
- 4) Symmetric**



**Q.17. A page fault occurs when.?**

- 1) the Deadlock happens**
- 2) the Segmentation starts**
- 3) the page is found in the memory**
- 4) the page is not found in the memory**



**Q.18. A system program that sets up an executable program in main memory ready for execution is.?**

- 1) assembler**
- 2) linker**
- 3) loader**
- 4) compiler**





**Q.19. This software creates a mirror images of the entire hard disk, including the operating system, application files, and data.?**

- 1) Operating system**
- 2) Backup software**
- 3) Utility programs**
- 4) Driver imaging**





**Q.20. A mistake in a algorithm that causes incorrect results is called a.?**

- 1) logical error**
- 2) syntax error**
- 3) procedural error**
- 4) compiler error**

**Syntax/ Compile errors** are - mistakes in the source code, such as spelling and punctuation errors

**Procedural errors** occur - when the experimenter does not follow the methodological protocol.



**Q.21. Every computer has a(n) \_\_\_\_\_many also have \_\_\_\_\_.**

- 1) operating system a client system**
- 2) operating system instruction sets**
- 3) application programs an operating system**
- 4) operating system, application programs**



**Q.22. Who invented Linux?**

- 1) J.presper Eckert and John W. Mauchly**
- 2) Dennis M. Ritchie**
- 3) Seymour Papert**
- 4) Torvalds**



**Q.23. It is a set of computer programs that runs or controls computer hardware and acts as an interface in the application programs and users.?**

- 1) object code**
- 2) a compiler**
- 3) an operating system**
- 4) the CPU**



**Q.24. If the displayed system time and date is wrong, you can reset it using.?**

- 1) Write**
- 2) Calendar**
- 3) Write file**
- 4) Control panel**



**Q.25. Which of the following operating system does not implement the multitasking truly.?**

- 1) Windows 98**
- 2) Windows NT**
- 3) Windows XP**
- 4) MS DOS**



**Q.26. Which of the following windows version support 64 bit processor.?**

- |                        |                      |
|------------------------|----------------------|
| <b>1) Windows 98</b>   | <b>Windows XP</b>    |
| <b>2) Windows 2000</b> | <b>Windows Vista</b> |
| <b>3) Windows XP</b>   | <b>Windows 7</b>     |
| <b>4) Windows 95</b>   | <b>Windows 8</b>     |
|                        | <b>Windows 10</b>    |
|                        | <b>Windows 11</b>    |





## 64 Bit OS

- ✓ Windows XP
- ✓ Windows Vista
- ✓ Windows 7
- ✓ Windows 8
- ✓ Windows 10
- ✓ Windows 11

## 64 Bit OS

- ✓ Windows XP
- ✓ Windows 95
- ✓ Windows 98





**Q.27. Which of the following Windows do not have Start button.?**

- 1) Windows Vista**
- 2) Windows 7**
- 3) Windows 8**
- 4) None of above**



**Q.28. Which operating system doesn't support networking between computers.?**

- 1) Windows 3.1**
- 2) Windows 95**
- 3) Windows 2000**
- 4) Windows NT**



**Q.29. Which operating system can you give smallest file name.?**

**1) Ps/2**

**2) Dos**

**3) Windows**

**4) Windows NT**



**Q.30. Which of the following is system software.?**

- 1) Operating system**
- 2) Compiler**
- 3) Utilities**
- 4) All of the above**



**To Be Continued...**

# Operating System

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**Q.31. What is the maximum length of the filename in DOS.?**

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- 1) 4 Characters**
- 2) 5 Characters**
- 3) 8 Characters**
- 4) 12 Characters**





**Q.32. Taskbar is used for.?**

- 1) Navigation program**
- 2) Switching between program**
- 3) Start a program**
- 4) All of above**

**Q.33. When a peripheral device needs immediate attention from the operating system, it generates a(n).?** **Arora Educator**



**1) Interrupt**

**2) Spool**

**3) Stack**

**4) Page file**



**Q.34. It is a compromise mode between Shut Down and Sleep mode because it does not consume power and remembers the current state of your desktop.?**

**Arora Educator**



- 1) Shut Down**
- 2) Restart**
- 3) Sleep**
- 4) Hibernate**

**Q.35. You should choose this mode if you don't know how long you won't use your computer but want to have the same desktop state when you resume.?**

**Arora Educator**



- 1) Shut Down**
- 2) Restart**
- 3) Sleep**
- 4) Hibernate**

**Q.36. The category of operating system that you most likely have running on your PDA computer is a .....  
Operating system.?**

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- 1) Real time
- 2) Single user, single task
- 3) Single user, multitask
- 4) Multiuser, multitask



**Q.37. My Computer was introduced from.?**

- 1) Windows 3.1**
- 2) Windows 3.11**
- 3) Windows 95**
- 4) Windows 98**



**Q.38. You should choose Sleep option when.?**

- 1) The computer is tired after working for the whole day
- 2) You are leaving for a very short time and want to resume your work shortly
- 3) When the computer gets hanged frequently. Let it sleep for some time.
- 4) You finish working and going to bed



**Q.39. What else is a command interpreter called.?**

- 1) prompt**
- 2) kernel**
- 3) shell**
- 4) command**

**Q.40. Which of the following options is correct about the windows operating system.?**

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- 1) Windows is a CUI operating system.**
- 2) Windows is based on CUI.**
- 3) Windows is a GUI operating system.**
- 4) None of the these**



**Q.41. Which of the following file systems is supported by the windows OS.?**

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- 1) NTFS
- 2) FAT32
- 3) exFAT
- 4) All of the these



**Q.42. The most recent version of MAC OS is based on the ... operating systems.?**

**Arora Educator**



- 1) Windows**
- 2) Linux**
- 3) Unix**
- 4) CMOS**

**Q.43. The ...operating system was initially created in the early 1970s at AT and T's Bell Labs.?**

**Arora Educator**



**1) Linux**

**2) DOS**

**3) Unix**

**4) GNU**



**Q.44. What is Dr. Watson.?**

**1) IT Expert**

**2) Diagnosis tool**

**3) Surgeon**

**4) None**

## Q.45. In a multiprogramming environment.?

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- 1) more than one process resides in the memory
- 2) the programs are developed by more than one person
- 3) the processor executes more than one process at a time
- 4) a single user can execute many programs at the same time



**Q.46. Operating system is.?**

- 1) A collection of hardware components**
- 2) A collection of input-output devices**
- 3) A collection of software routines**
- 4) All of the above**

**Q.47. User action such as keystroke or mouse click are referred to as.?**

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- 1) Interrupt**
- 2) Tasks**
- 3) Processes**
- 4) Event**

**Q.48. It is the operating systems File and folder Manager.?**

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- 1) Windows Explorer**
- 2) Windows Control Panel**
- 3) My Computer**
- 4) My Documents**



**Q.49. The OS used to operate the mobile phone is a.?**

- 1) Smart card OS**
- 2) Embedded OS**
- 3) Multiuser OS**
- 4) None of above**

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**Q.50. Which is not a valid file system.?**

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- 1) FAT 16**
- 2) FAT 32**
- 3) NTFS**
- 4) FXZ**

# Q.51. Which is built directly on the hardware.?

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- 1) Computer Environment
- 2) Application Software
- 3) Operating System
- 4) Database System

**Q.52. Which of the following is not a mode in starting Windows.?**

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- 1) Command Prompt**
- 2) Safe Mode**
- 3) Normal Mode**
- 4) Turbo Mode**

**Q.53. Which of the following is default mode for Windows to start.?**

**Arora Educator**



- 1) Command Prompt**
- 2) Safe Mode**
- 3) Normal Mode**
- 4) None of these**



**Q.54. What is the full form of NTFS.?**

- 1) New Technology File System**
- 2) New Technical File System**
- 3) New Technician File System**
- 4) None of the above**

**Q.55. Which button might you find in a windows title bar.?**

**Arora Educator**



- 1) Close button**
- 2) Maximize button**
- 3) Minimize button**
- 4) All of the above**



**Q.56. What does FAT stands for.?**

- 1) File attribute type**
- 2) File allocation table**
- 3) Format All Tabs settings**
- 4) File for all type**



**Q.57. Which of the following is an example of utility.?**

**1) Antivirus**

**2) Word**

**3) Operating system**

**4) Data recovery**

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**Q.58. Which file system DOS typically use.?** **Arora Educator**



- 1) FAT 16**
- 2) FAT 32**
- 3) NTFS**
- 4) LMFS**

# Q.59. Which file system Windows 95 typically use.?

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1) FAT 16

2) FAT 32

3) NTFS

4) LMFS



**Q.60. The following applications may appear on system tray except.?**

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- 1) System Clock**
- 2) Volume Control**
- 3) Network Connection**
- 4) MS Office Suite**

**Q.61. Which of the following is default location of saving and opening file.?**

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- 1) Desktop**
- 2) My computer**
- 3) My documents**
- 4) All of above**



**Q.62. LINUX operating system is a(n).?**

- 1) Time sharing operating system**
- 2) Multi-user operating system**
- 3) Multi-tasking operating system**
- 4) All of the above**



**Q.63. Disk label name can be up to ..... characters.?**

**1) 8**

**2) 9**

**3) 11**

**4) 255**

**Q.64. Which of the following file format supports in Windows 7.?**

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**1) NTFS**

**2) BSD**

**3) EXT**

**4) All of the above**



**Q.65. Press \_\_\_\_\_ key while booting to display Advanced Boot Menu.?**

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**1) F5**

**2) F6**

**3) F8**

**4) Del**



**Q.66. Which of the following keys does the user use to switch between applications running simultaneously in the Windows operating system.?**

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**1) FN + TAB**

**2) ALT + TAB**

**3) CTRL + TAB**

**4) SHIFT + TAB**

**Q.67. Which of the following operating system runs on the server.?**

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- 1) Batch OS**
- 2) Distributed OS**
- 3) Real-time OS**
- 4) Network OS**

**Q.68. What type of memory stores data in a swap file on a hard drive.?**

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- 1) Secondary memory**
- 2) Virtual memory**
- 3) Low memory**
- 4) RAM**

**Q.69. Which of the following operating system does not require a command to run.?**

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- 1) Kali Linux
- 2) Windows
- 3) Unix
- 4) All of the these

# Q.70. The operating system work between.?

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- 1) User and Computer
- 2) Network and User
- 3) One user to another user
- 4) All of the these



**Q.71. What is APK in Android ?**

- 1) Android Pack**
- 2) Android Packages**
- 3) Android Package Kit**
- 4) None of these**

**Q.72. Android is developed specially for ?**

**Arora Educator**



- 1) Laptops**
- 2) Desktops**
- 3) Servers**
- 4) Mobile Devices**



**Q.73. What is the extension of iOS application.?**

**Arora Educator**



**.ipa = iOS App Store Package**

1) .apk

2) .ipa

3) .doc

4) .mac



**Q.74. What is the extension of Android application.?**

**Arora Educator**

**1) .apk**

**.apk = Android Package Kit**

**2) .ipa**

**3) .doc**

**4) .mac**



**Q.75. Core part of Linux operating system is called.?**

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- 1) Kernel**
- 2) Shell**
- 3) Hardware**
- 4) Both 1 & 2**

**Q.76. What are the common features of Linux operating system.?**

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- 1) Multiuser and multitasking capacity**
- 2) Linux is open source**
- 3) Linux is secure**
- 4) All of the above**





# E-MAIL CONCEPT



# E-Mail

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- ✓ E-Mail stands for = Electronic Mail
- ✓ E-mail Founder = Ray Tomlinson
- ✓ First E-mail Sent Year = 1971
- ✓ First E-mail message was = QWERTYUIOP
- ✓ First E-mail Provider = Hotmail
- ✓ Hotmail Founder = Sabeer Bhatia
- ✓ Hotmail Renamed = MS Outlook

# E-Mail

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- ✓ Unwanted Mail = Spam
- ✓ Email Spoofing = Malware Attachment
- ✓ E-mail Part = 2
- ✓ Part = username@domainname
- ✓ @ Year = 1972
- ✓ Automatically = From, Date/Time
- ✓ Storage area of e-mail is = Mailbox

# E-Mail

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- ✓ **Access E-mail Anywhere = Webmail Interface**
- ✓ **E-mail via Software = E-mail Client**



# Mail Facts

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## E-Mail Client

✓ Software Install = In Computer to read mails.

**Example =**

- 1) MS Outlook
- 2) Mozilla Thunderbird
- 3) Apple Mail



# Mail Facts

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## Webmail

✓ Access Mail = From Internet.

**Example =**

- 1) Gmail
- 2) Yahoo
- 3) AOL (America Online) = Verizon
- 4) Lycos
- 5) ZOHO Mail
- 6) Yandex

# E-Mail Protocols

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- ✓ **Send Mail = SMTP**
- ✓ **Receive Mail = POP3/IMAP**
- ✓ **Attachment (Non Text ) = MIME**

# E-Mail Protocols

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- ✓ **SMTP = Simple Mail Transfer Protocol**
- ✓ **POP/IMAP =**
  - **Post Office Protocol 3**
  - **Internet Message Access Protocol**
- ✓ **MIME = Multipurpose Internet Mail Extension**

# POP Vs IMAP



- ✓ POP protocol is used to = download emails from a mail server.
- ✓ IMAP protocol is used to = access the mails from the server itself.
- ✓ POP uses port number 110, IMAP uses port number 143.

# MIME

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- ✓ **MIME = Multipurpose Internet Mail Extension**
- ✓ **Used in = Non-text e-mail attachments**
- ✓ **Helps in Sending & Receiving Files Like = Audio, Video, Graphics, Spreadsheet etc.**

# E-mail Port Number

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- ✓ **SMTP = 25**
- ✓ **POP = 110**
- ✓ **IMAP = 143**

# CC/BCC

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- ✓ **CC = Carbon Copy**
- ✓ **All recipients will be able to see each other mail address**
- ✓ **BCC = Blind Carbon Copy**
- ✓ **None of the recipient will be able to see each other mail address**



# G-Mail

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- ✓ Gmail Founder = Paul Buchheit
- ✓ Year = April 1, 2004
- ✓ Gmail Attachment Limit = 25 MB
- ✓ Free Storage on G-mail = 15 GB



# Yahoo-Mail

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- ✓ **Yahoo Founder = Jerry Yang and David Filo**
- ✓ **Founded Year = 1994**
- ✓ **Launched Year = 1997**

# MS Outlook

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- ✓ Prior = Hotmail
- ✓ Founder = Sabeer Bhatia & Jack Smith
- ✓ Founded year = 1996
- ✓ Microsoft Acquired = 1997
- ✓ Email client
- ✓ Microsoft PIM
- ✓ PIM = Personal Information Manager

# AOL Mail

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- ✓ **America Online**
- ✓ **Founder = Steve Case, Marc Seriff, Jim Kimsey, William von Meister**
- ✓ **Founded Year = 1983**
- ✓ **Owned by = Verizon**

# E-mail Security

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- ✓ **PGP = Pretty Good Privacy**
- ✓ **SSL = Secure Sockets Layer**
- ✓ **TLS = Transport Layer Security**

# E-mail Signature

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**James Smith**

SEO | Marketing | Google

**Phone:** 111 222 3333

**Mobile:** 124 465 5646

**Website:** [www.cocosign.com](http://www.cocosign.com)

**Email:** [james.smith@cocosign.com](mailto:james.smith@cocosign.com)

**Address:** William Ave Bedford, NY, USA



# E-mail Signature

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- ✓ **An email signature is placed at the bottom of each mail.**
- ✓ **Personalized block of text**
- ✓ **Appended at the bottom of an email message**

# Other Terms

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- ✓ **Draft = Used to store = unsent emails.**
- ✓ **Trash = Deleted Mails**
- ✓ **Spam/Junk = Storing unwanted email as determined by a spam filter**
- ✓ **Places automatically cleaned are = Trash and Spam after about 30 days**







# E-MAIL MCQ's





# **Q.1. Why should you not type in all caps when writing an email.?**

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- 1) Because it takes up more room and makes the email longer**
- 2) Because it is hard to read**
- 3) It is interpreted as shouting at someone**
- 4) Because it is tough on your keyboard**

**Q.2. If you have a very large attachment to send, what should you do.?**

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- 1) Compress or 'zip' the file first**
- 2) Email it to yourself first and make sure that your system can handle it**
- 3) Try to break it up into several smaller attachments if possible**
- 4) Just attach it and send it**

**Q.3. If you don't want to type your name at the end of every email you send, what can you do instead.?**

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- 1) Don't sign it at all as people know who the email is from**
- 2) Only sign emails being sent to people outside of your organization**
- 3) Create a signature that will attach to every email you send**
- 4) All of these**

**Q.4. The convenient place to store contact information for quick retrieval in an e-mail is.?**

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- 1) Address Box**
- 2) Message Box**
- 3) Address Book**
- 4) Message Book**

**Q.5. Which of the following is NOT suitable in the context of E-mail.?**

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- 1) It is a letter sent over a computer network**
- 2) It can be used to send unsolicited messages**
- 3) E-mail is snail-mail**
- 4) E-mail address includes domain name**

**Q.6. It is used to keep someone in the loop, or to share the same email with them.?**

**Arora Educator**



**1) CC**

**2) BCC**

**3) Send**

**4) Subject**

**Q.7. This creates a literal copy of the same email in the recipient's inbox.?**

**Arora Educator**



**1) CC**

**2) BCC**

**3) Send**

**4) Subject**

**Q.8. By using this option in E-mail anyone can see who you sent this email to.?**

**Arora Educator**



**1) CC**

**2) BCC**

**3) Send**

**4) Subject**



**Q.9. It allows you to hide recipients in email messages.?**

**Arora Educator**



**1) CC**

**2) BCC**

**3) Send**

**4) Subject**

**Q.10. All outgoing messages are stored in \_\_\_\_\_ folder.?**

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- 1) Draft**
- 2) Deleted**
- 3) Inbox**
- 4) Sent**

**Q.11. Recipient are invisible to all of other recipients of messages?**

**Arora Educator**



**1) CC**

**2) BCC**

**3) To**

**4) All of these**

**Q.12. Which of the following programs is used by a user to send & receive emails?**

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- 1) Mail Transfer Agent**
- 2) Mail Delivery Agent**
- 3) Mail User Agent**
- 4) Mail Reading Agent**

**Q.13. Which of the following are threats to E-mail security?**

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- 1) VIRUS**
- 2) TROJAN**
- 3) PHISHING**
- 4) All of these**

**Q.14. Among these name the E-mail client ?**

**1) Gmail**

**2) Yahoo**

**3) MS Outlook**

**4) AOL**

**Arora Educator**



**Q.15. You are working on a new email but need to leave for the day. When you close the email, you see the message above. When you come back tomorrow, in which folder will you find the mail?**

**Arora Educator**



- 1) Inbox**
- 2) History**
- 3) Drafts**
- 4) Junk Mail**

## Q.16. POP3 uses which Port Number?

- 1) 80
- 2) 100
- 3) 120
- 4) 110

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# Q.17. SMTP uses which Port Number?

1) 80

2) 21

3) 25

4) 29

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**Q.18. Simple Mail Transfer Protocol is used to transfer ?**

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- 1) Only Image Files**
- 2) Only Audio Files**
- 3) Only Text Files**
- 4) Only Video Files**

**Q.19. Which protocol is used to provide security to Emails is?**

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**1) SNMP      Pretty Good Privacy**

**2) HTTP**

**3) PGP**

**4) POP**

**Q.20. Unwanted mail is called?**

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- 1) Phishing**
- 2) SPAM**
- 3) Trojan**
- 4) Firmware**



**Q.21. Founder of Gmail ?**

- 1) Bill Gates & Paul Allen**
- 2) Dennis Ritchie**
- 3) Paul Buchheit**
- 4) Jerry Yang & David Filo**



**Q.22. Founder of Yahoo Mail?**

- 1) Bill Gates & Paul Allen**
- 2) Dennis Ritchie**
- 3) Sachin & Binny Bansal**
- 4) Jerry Yang & David Filo**

# Q.23. How much storage is free on Gmail?

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1) 10 GB

2) 15 GB

3) 25 GB

4) 20 GB

**Q.24. What is the attachment size limit in Gmail ?**

**Arora Educator**



- 1) 10 MB**
- 2) 15 MB**
- 3) 25 MB**
- 4) 30 MB**



**Q.25. MSN and AOL are the examples of?**

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- 1) Search Engines**
- 2) Social Networking Sites**
- 3) Internet Service Providers**
- 4) Online Service Providers**

**Q.26. Which of the following are used to receive mail from the mail server?**

**Arora Educator**



- 1) SMTP & POP-3**
- 2) HTTP & SMTP**
- 3) POP3 & IMAP**
- 4) IMAP & SMTP**

**Q.27. A simple protocol used for fetching e-mail from a mailbox is?**

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- 1) POP2**
- 2) POP3**
- 3) SMTP**
- 4) HTTP**

**Q.28. In which of the following country, email was invented?**

**Arora Educator**



- 1) Norway**
- 2) Spain**
- 3) America**
- 4) Canada**



**Q.29. E-mail was Patented in ?**

- 1) 1971**
- 2) 1981**
- 3) 1974**
- 4) 1919**



**Q.30. Sending an E-mail is similar to?**

- 1) Picturing an event**
- 2) Narrating a story**
- 3) Writing a letter**
- 4) Creating a drawing**



**Q.31. Storage area of e-mail is?**

- 1) Attachment**
- 2) Hyperlink**
- 3) Mailbox**
- 4) IP Address**

**Q.32. E-mail address separate the user name from the ISP using this symbol?**

**Arora Educator**



**1) &**

**2) @**

**3) %**

**4) :**



**Q.33. It allows you to access your e-mail from anywhere ?**

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- 1) Forum**
- 2) Webmail Interface**
- 3) Message Board**
- 4) Weblog**



**Q.34. While sending an e-mail which line describes the contents of the message ?**

**1) To**

**2) Subject**

**3) Contents**

**4) CC**

**Q.35. @ invented in which year?**



**1) 1970**

**2) 1971**

**3) 1972**

**4) 1974**



**Q.36. Founder of E-mail ?**

**1) Tim Berners Lee**

**2) Vint Cerf**

**3) Sabeer Bhatia**

**4) Ray Tomlinson**

# Q.37. Which protocol is not used in E-mail?

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- 1) SMTP
- 2) POP3
- 3) IMAP
- 4) UDP



**Q.38. Founder of Hotmail?**

- 1) Tim Berners Lee**
- 2) Vint Cerf**
- 3) Sabeer Bhatia**
- 4) Ray Tomlinson**

# Q.39. SMTP is which type of protocol ?

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- 1) Pull
- 2) Push
- 3) Null
- 4) 1 & 2

**Q.40. Recipients per message sent via SMTP (by POP or IMAP users) or the Gmail API is?**

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**1) 100**

**2) 200**

**3) 300**

**4) 400**



**Q.41. In MS Office, \_\_\_\_\_ is the software for managing emails.?**

**Arora Educator**



- 1) MS Access**
- 2) MS Publisher**
- 3) MS Outlook**
- 4) MS Onenote**



**Q.42. E-mail address is made up of.?**

- 1) Single Parts**
- 2) Two Parts**
- 3) Three parts**
- 4) Four Parts**

**Q.43. The crisp essence of email message is entered in \_\_\_\_\_ field.?**

**Arora Educator**



- 1) To**
- 2) CC**
- 3) BCC**
- 4) Subject**

**Q.44. A half completed email may be saved for later editing and transmission to the receiver in \_\_\_\_\_ folder.?**

- 1) Spam Bin**
- 2) Inbox**
- 3) Sent mails**
- 4) Draft**

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**Q.45. If you have to send multimedia data over SMTP it has to be encoded into.?**

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**1) Binary**

**2) Signal**

**3) ASCII**

**4) None of these**

**Q.46. Which of the following icon is used to add an attachment to an email.?**

**Arora Educator**



- 1) Stationery icon
- 2) Paper Clip icon
- 3) GIF icon
- 4) Emoji icon



**Q.47. To send a received mail to another person, you need to \_\_\_\_\_ the message.?**

**Arora Educator**



**1) Reply To**

**2) Forward**

**3) Reply All**

**4) Copy**

**Q.48. Which of the following is mandatory for sending an email.?**

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- 1) Body**
- 2) Sender Mail Id**
- 3) Attachment**
- 4) Subject**





**Q.49. What is included in an E-mail address.?**

- 1) Domain name followed by user name**
- 2) User name followed by domain address**
- 3) User name followed by postal address**
- 4) User name followed by street address**

**Q.50. A block of text automatically added to the end of an outgoing email is called an.?**

**Arora Educator**



- 1) Attachment
- 2) Signature
- 3) Footer
- 4) Encryption

**Q.51. Which of the following is the correct form for an e-mail address.?**

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- 1) ramesh:yahoomail.com
- 2) Yahoomail.com@ramesh
- 3) ramesh@http://www.yahoomail.com
- 4) ramesh@yahoomail.com



**Internet & WWW = World Wide Web**

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# WWW = World Wide Web

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- ✓ Also known as = Web/W3
- ✓ System of Accessing = Webpages through internet
- ✓ Founder = Tim Berners-Lee (Working in CERN)
- ✓ Invented in Year = 1989
- ✓ Main international standards organization for the World Wide Web = W3C
- ✓ W3C = World Wide Web Consortium

# WWW = World Wide Web

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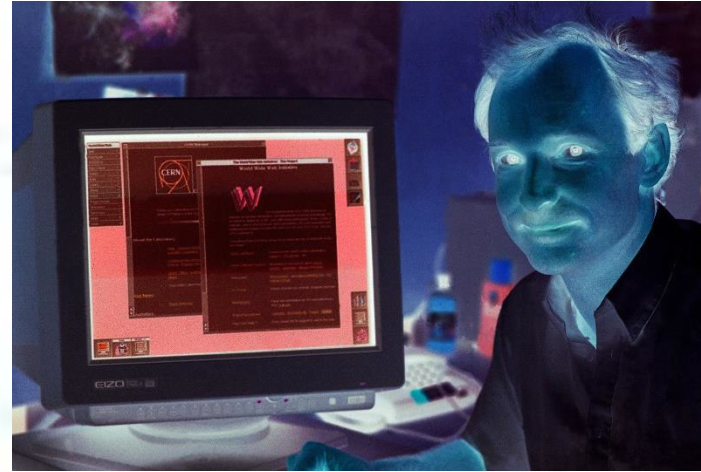
- ✓ First Web Site Address = <http://info.cern.ch/hypertext/WWW/TheProject.html>.
- ✓ CERN = European Organization for Nuclear Research
- ✓ First Web Browser = WorldWideWeb
- ✓ WorldWideWeb Browser Renamed = Nexus
- ✓ First Web page went live on = August 6, 1991
- ✓ First Web Page ran on = NeXT computer





# Q.1. Who invented the World Wide Web (WWW).?

- 1) Marc Andreesson
- 2) Vinton Cerf
- 3) Arthur C. Clarke
- 4) Tim Berners-Lee





## Q.2. What is the World Wide Web.?

- 1) A computer game
- 2) A software program
- 3) The part of the Internet that enables information-sharing via interconnected pages
- 4) Another name for the Internet







Q.3. The central organization who is responsible for creating and maintaining web standards is.?

- 1) ISO
- 2) ASCII
- 3) DARPA
- 4) W3C

World Wide Web Consortium (W3C)





**Q.4. WWW invented in which year.?**

**1) 1988**

**2) 1989**

**3) 1990**

**4) 1991**



**Q.5. Name the first ever website name.?**

- 1) ISI**
- 2) ANSI**
- 3) ASCII**
- 4) CERN**



**Q.6. Name the first web Browser.?**

- 1) Nexus**
- 2) Cern**
- 3) Mosaic**
- 4) WWW**



**Q.7. Name the first Graphical web Browser.?**

- 1) Nexus**
- 2) Cern**
- 3) Mosaic**
- 4) WWW**



**Q.8. WorldWideWeb Browser was Renamed by .?**

- 1) Nexus**
- 2) Cern**
- 3) Mosaic**
- 4) WWW**



**Q.9. First Web page went live on.?**

**1) 1989**

**2) 1990**

**3) 1991**

**4) 1995**





**Q.10. Name the client programme.?**

- 1) Operating System**
- 2) Search Engine**
- 3) Internet**
- 4) Browser**





**Q.11. Name the first software required to run Internet.?**

- 1) Operating System**
- 2) Search Engine**
- 3) POST**
- 4) Browser**



**Q.12. Who developed Mosaic Browser.?**

- 1) Tim Berners Lee**
- 2) Ray Tomlinson**
- 3) Marc Andreessen**
- 4) Vint Cerf**



**Q.13. Name the browser developed by AOL.?**

- 1) Chrome**
- 2) Firefox**
- 3) Internet Explorer**
- 4) Netscape Navigator**



**Q.14. Last version of Internet Explorer was.?**

**1) IE 9**

**2) IE 10**

**3) IE 11**

**4) IE 12**



**Q.15. Which browser support was ended in Year 2020.?**

- 1) Chromium**
- 2) Edge**
- 3) Internet Explorer**
- 4) Netscape Navigator**



**Q.16. Name the free & open source web browser.?**

- 1) Google Chrome**
- 2) Mozilla Firefox**
- 3) Internet Explorer**
- 4) Netscape Navigator**



**Q.17. Name the animal shown in logo of Mozilla Browser.?**

- 1) Lion
- 2) Tiger
- 3) Red Panda
- 4) Fox







**Q.18. Name the browser developed by Apple.?**

- 1) Chrome**
- 2) Edge**
- 3) Internet Explorer**
- 4) Safari**





**Q.19. Name the latest browser of Microsoft.?**

**1) Chrome**

**2) Edge**

**3) Internet Explorer**

**4) Incognito mode**



**Q.20. Name the browser used for Anonymous web surfing.?**

**1) Chrome**

**2) Edge**

**3) TOR**

**4) Mozilla Firefox**

**the onion routing**



**Q.21. Founder of Internet.?**

- 1) Ray Tomlinson**
- 2) Sabeer Bhatia**
- 3) Vint Cerf**
- 4) Alan Turing**



**Q.22. The address of a website is also known as.?**

**1) WWW**

**2) URL**

**3) BCC**

**4) HTML**



**Q.23. Cookies are Saved in .?**

- 1) Client Side**
- 2) Server Side**
- 3) Client & Server both side**
- 4) Only on ISP**



**Q.24. Cookies are Send by .?**

**1) Client**

**2) Server**

**3) Client & Server both**

**4) Browser**



**Q.25. Internet data is broken up as .?**

- 1) Fixed Length Packets**
- 2) Variable Length Packets**
- 3) Not in packets**
- 4) 64 bytes packets**



**Q.26. The communication protocol used by Internet is .?**

- 1) HTTP**
- 2) WWW**
- 3) TCP/IP**
- 4) FTP**





**Q.27. The server on the Internet is also known as .?**

- 1) Host**
- 2) Hub**
- 3) Gateway**
- 4) Repeater**



**Q.28. Who Provide us Internet .?**

**1) TCP**

**2) ISP**

**3) FTP**

**4) HTTP**



**Q.29. Free of cost repair of software bug available at Internet is called.?**

- 1) Version**
- 2) Ad-on**
- 3) Tutorial**
- 4) Patch**



**Q.30. Internet works on.?**

- 1) Packet Switching**
- 2) Circuit Switching**
- 3) Character Switching**
- 4) All of these**



**Internet & WWW = World Wide Web**

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**Q.30. Internet works on.?**

- 1) Packet Switching**
- 2) Circuit Switching**
- 3) Character Switching**
- 4) All of these**





**Q.31. IRC Stands for .?**

- 1) Internet Resource Channel**
- 2) Internet Routing Channel**
- 3) Internet Rights Council**
- 4) Internet Relay Chat**



**Q.32. Which of the following is not a type of broadband internet connection.?**

**1) Satellite**

**2) DSL**

**3) Dial up**

**4) Cable**





**Q.33. Which of the following protocols is used in the internet.?**

**1) HTTP**

**2) DHCP**

**3) DNS**

**4) DNS, HTTP and DNS**



**Q.34. Which protocol assigns IP address to the client connected in the internet.?**

**1) DHCP**

**2) IP**

**3) RPC**

**4) RSVP**



**Q.35. The Internet was originally a project of which agency.?**

**1) ARPA**

**2) NSF**

**3) NSA**

**4) None of these**



**Q.36. The process of transferring files from a computer on the Internet to your computer is called.?**

- 1) Uploading**
- 2) Forwarding**
- 3) FTPD**
- 4) Downloading**



**Q.37. Verification of a login name and password is known as.?**

- 1) Configuration**
- 2) Accessibility**
- 3) Authentication**
- 4) Logging in**



**Q.38. Moving from one website to another is called .?**

**1) Downloading**

**2) Browsing**

**3) Uploading**

**4) Attachment**



**Q.39. A computer on internet are identified by?**

- 1) e-mail address**
- 2) street address**
- 3) IP address**
- 4) None of the above**





**Q.40. The code for a web page is written using?**

- 1) Perl**
- 2) Winzip**
- 3) URL**
- 4) Hypertext markup language**





**Q.41. Which protocol helps to transfer files between computers.?**

- 1) FTP**
- 2) HTTP**
- 3) FTTP**
- 4) HTP**



**Q.42. Which of the following is required to create an HTML document.?**

- 1) Search engine**
- 2) Internet**
- 3) Browser**
- 4) Text editor**



**Q.43. The Internet is a system of.?**

- 1) Website**
- 2) Web page**
- 3) Software bundles**
- 4) Interconnected networks**



**Q.44. An educational institution would generally have the following in its domain name.?**

**1) .edu**

**2) .org**

**3) .com**

**4) .inst**



**Q.45. It is considered the official birthday of the Internet.?**

- 1) January 1, 1983**
- 2) January 1, 1988**
- 3) January 1, 1990**
- 4) January 1, 1980**



**Q.46. Internet services were launched in India on.?**

**1) 15th August, 1995**

**2) 15th August, 1990**

**3) 15th August, 1997**

**4) 15th August, 2000**



**Q.47. Who first started Internet in India.?**

- 1) BSNL**
- 2) MTNL**
- 3) Idea**
- 4) VSNL**





**Q.48. Name the Mother of Internet.?**

**1) Ada Augusta**

**2) Radia Perlman**

**3) Grace Hopper**

**4) Hedy Lamarr**

**1) First Programmer**

**2) Spanning Tree Protocol**

**3) First computer bug was recorded**

**4) Inventor of WI-FI**





**Q.49. A cookie.?**

- 1) Stores the password of the user**
- 2) Stores information about the user's web activity**
- 3) Stores the commands used by the user**
- 4) Stores software developed by the user**



**Q.50. The home page of a website is.?**

- 1) The most colorful page**
- 2) The first page**
- 3) The last page**
- 4) The largest page**



**Q.51. It refers to websites that emphasize user-generated content, ease of use, participatory culture, share and interoperability.?**

- 1) Web 2.0**
- 2) Internet 2.0**
- 3) Second generation of the World Wide Web**
- 4) All of these**



**Q.52. IoT stands for.?**

- 1) Introduction of Things**
- 2) Internet of Things**
- 3) Internet of Tracking**
- 4) Interaction of Things**



**Q.53. IoT is an advanced automation and analytics system which deals with.?**

- 1) sensor, networking**
- 2) electronic**
- 3) cloud messaging**
- 4) All of the above**



**Q.54. In Which year, the term "Internet of things" was coined.?**

**1) 1998**

**2) 1999**

**3) 2000**

**4) 2001**



**Q.55. The term "Internet of things" was coined by.?**

- 1) Kevin Ashton**
- 2) Guido van Rossum**
- 3) IBM**
- 4) Ross Ihaka**



# Internet/Intranet/Extranet

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- 1) **Internet** = Global interconnection of computer systems (Public Network)
- 2) **Intranet** = Intranets are mainly used within businesses and organizations (Private Network)
- 3) **Extranet** = Allows users from outside to access the Intranet of an organization.

“inter” means = “between”

“intra” means = “inside”

“extra” means = “outside”





## **Q.56. Intranet & Extranet differs at.?**

- 1) Intranet : Private, Extranet : Public**
- 2) Intranet : Public, Extranet : Private**
- 3) Intranet : Private, Extranet : Private and also allowed authorized partners**
- 4) Intranet : Public, Extranet : Public**

**Q.57. Local Area Network that allows their computers to share files, data, printers and other resources are called.?**

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- 1) Usenet**
- 2) Extranet**
- 3) Internet**
- 4) Intranet**

**Internet & WWW = World Wide Web**

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# Surface Web/Deep Web/Dark Web

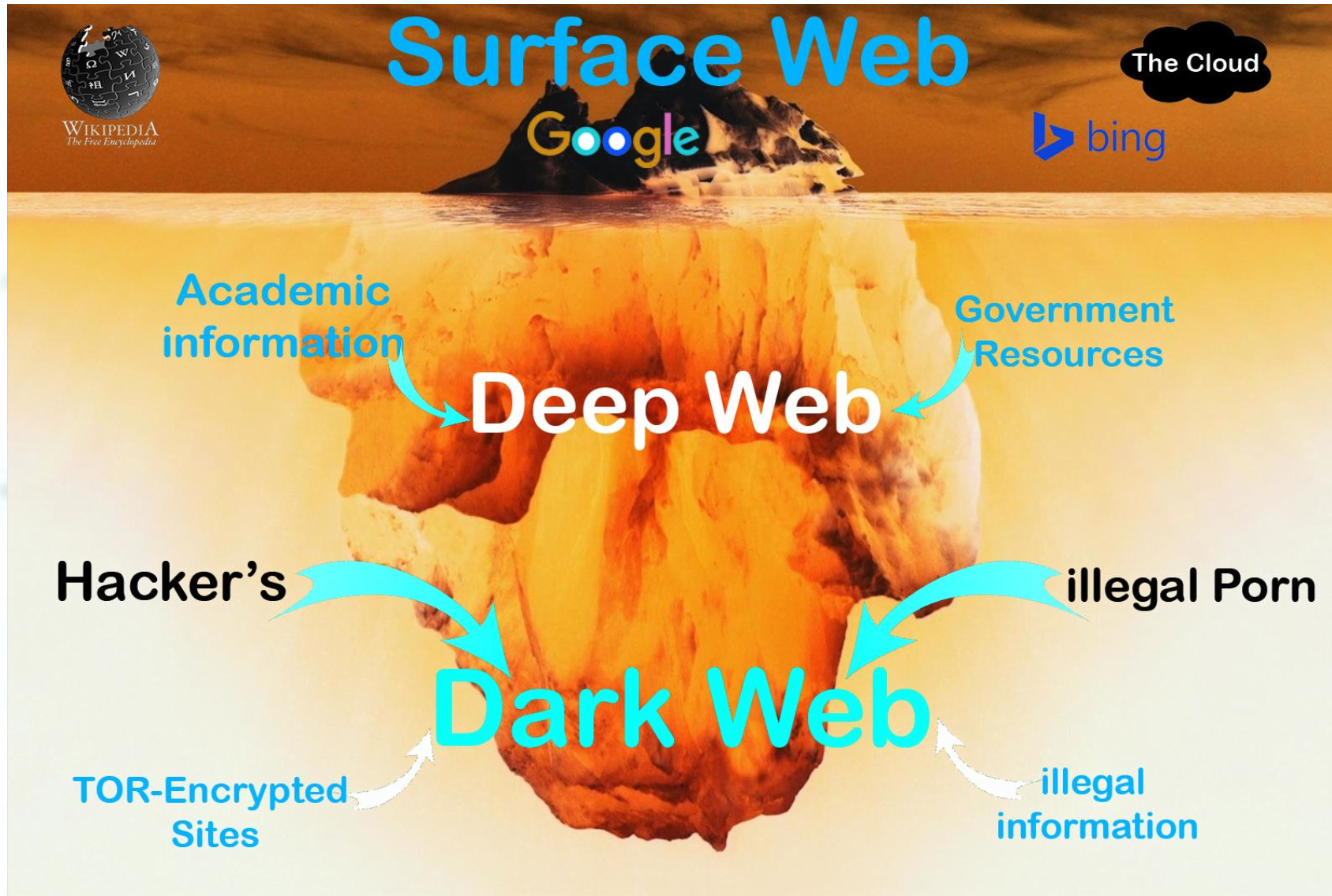
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# Surface Web/Deep Web/Dark Web

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# Surface Web/Deep Web/Dark Web

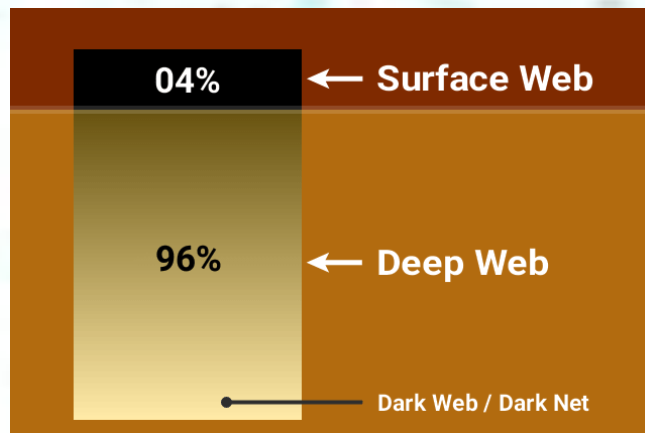
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- 1) **Surface Web** = Everything you see on the surface of the internet when going online forms part of the surface web, which comprises just 4% of the entire net.

**Search Engine Use is** = Google/Bing/Yahoo

**Examples** = Facebook, YouTube, Wikipedia, Regular Blogging Websites, and basically everything that we can see on any search engine's result page (SERP).



# Surface Web/Deep Web/Dark Web



**2) Deep Web** = The deep web refers to parts of the Internet not fully accessible through standard search engines like Google, Yahoo, and Bing.

It Includes –

- ✓ Pages that were not indexed
- ✓ Fee-for-service (FFS) sites = Netflix
- ✓ Private databases = Drop Box, paypal
- ✓ Dark web





# Surface Web/Deep Web/Dark Web

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**3) Dark Web** = Encrypted online content that is not indexed by conventional search engines.

Browser = TOR Browser

It includes =

Ransomware

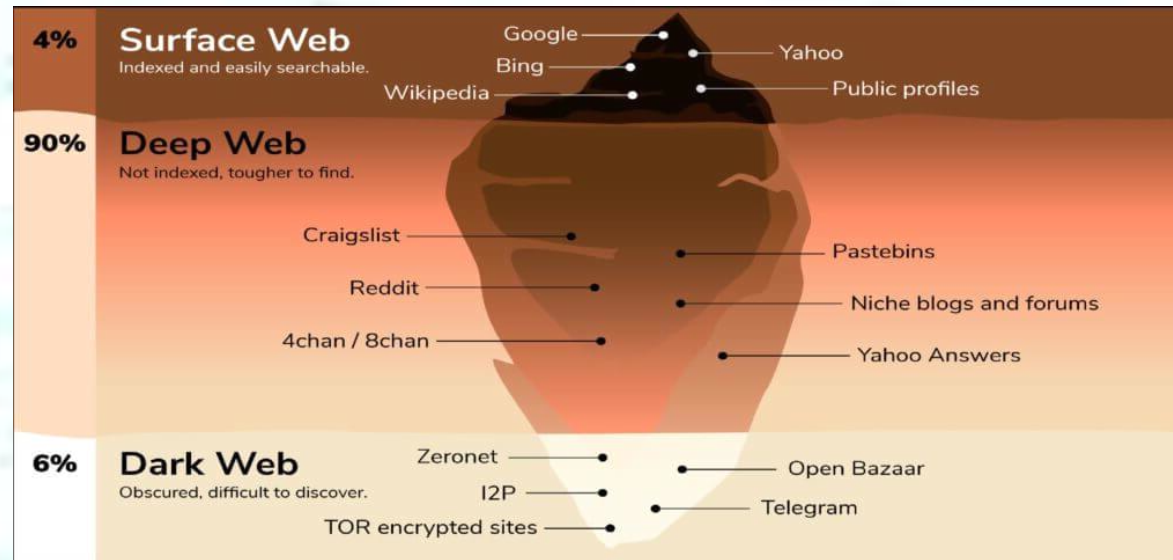
Bitcoin services

Bitcoin services

Financing and fraud

Illegal pornography

Terrorism





**Q.58. The \_\_\_\_\_ is anything which your search engine cannot search.?**

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- 1) Haunted web**
- 2) World Wide Web**
- 3) Surface web**
- 4) Deep Web**

**Q.59. The \_\_\_\_\_ is categorized as an unknown segment of the Deep Web which has been purposely kept hidden & is inaccessible using standard web browsers.?**

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- 1) Haunted web
- 2) World Wide Web
- 3) Dark web
- 4) Surface Web

**Q.60. It is a network construct over the internet that is encrypted. It offers anonymity to its users. Tor (The Onion Router) is a common service of Darknet.?**

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- 1) Freenet
- 2) Darknet
- 3) ARPANET
- 4) Stuxnet

**Q.61. A special tool is necessary for entering the network which is \_\_\_\_\_ that helps the anonymous internet users to access into the Tor's network and use various Tor services.?**

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- 1) Opera browser**
- 2) Mozilla browser**
- 3) Chrome browser**
- 4) Tor browser**

**Q.62. Deep web is also known as .?**

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- 1) Freenet**
- 2) Darknet**
- 3) ARPANET**
- 4) Hidden web**

**Q.63. The popular computer scientist \_\_\_\_ has coined the term “deep web” in the year 2001.?**

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- 1) Mr. Tim B. Lee**
- 2) Mr. Narcos Maralli**
- 3) Mr. Michael K. Bergman**
- 4) Mr. Ken Thompson**

# Browsers



- 1) **Google Chrome** = Incognito Mode = Ctrl Shift N
- 2) **Mozilla Firefox** = Open Source
- 3) **Internet Explorer** = IE 11 last release = Support ended = January 31, 2020
- 4) **Edge** = Microsoft latest = 29 April 2015
- 5) **TOR** = Anonymous Browser/Dark Web
- 6) **First Web Browser** = WWW/Nexus
- 7) **First Graphical Browser** = Mosaic
- 8) **Old web browser still used** = Lynx
- 9) **Apple Browser** = Safari
- 10) **Indian Browser** = Epic
- 11) **Alt + T** = Open Tab in Browser
- 12) **Alt + W** = Close Tab in Browser



# Search Engine

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- 1) Google = 1996 = Larry Page and Sergey Brin
- 2) Yahoo = 1995 = Jerry Yang and David Filo
- 3) Bing = Microsoft
- 4) AltaVista = Purchased by Yahoo
- 5) Baidu = China
- 6) First Search Engine = Archie = 1990 = Alan Emtage
- 7) Web Crawler/Web Spider = Index web content for search results
- 8) SERP = Search Engine Results Page
- 9) SEO = Search Engine Optimization
- 10) SEM = Search Engine Marketing



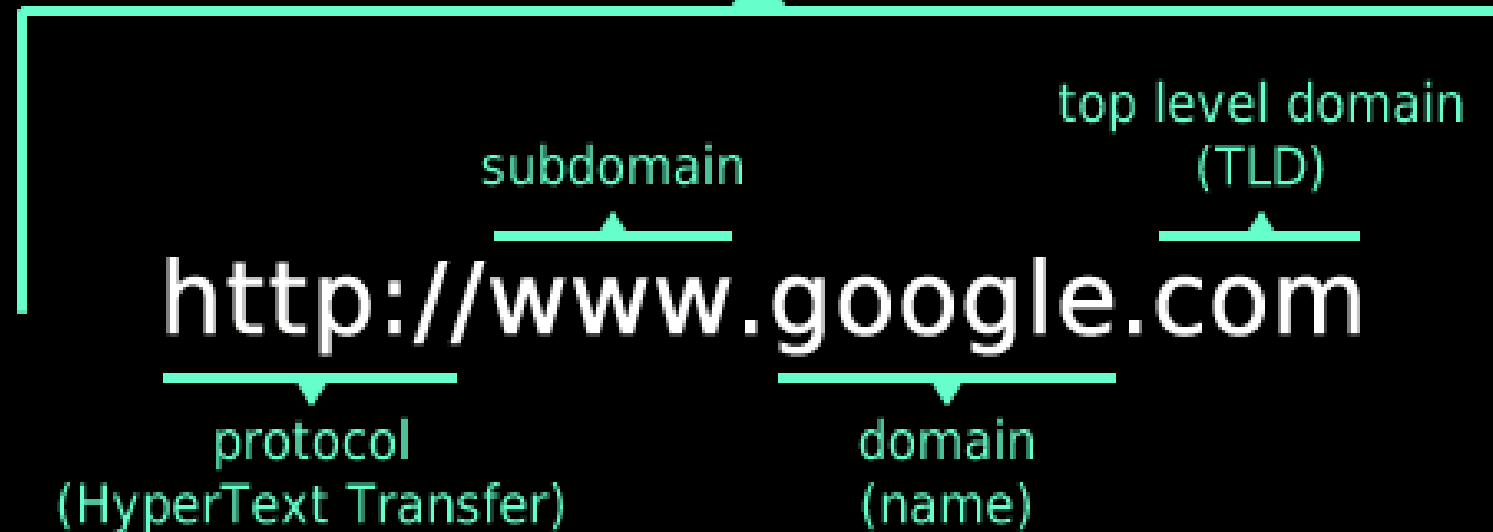
# URL

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## URL

Uniform Resource Locator





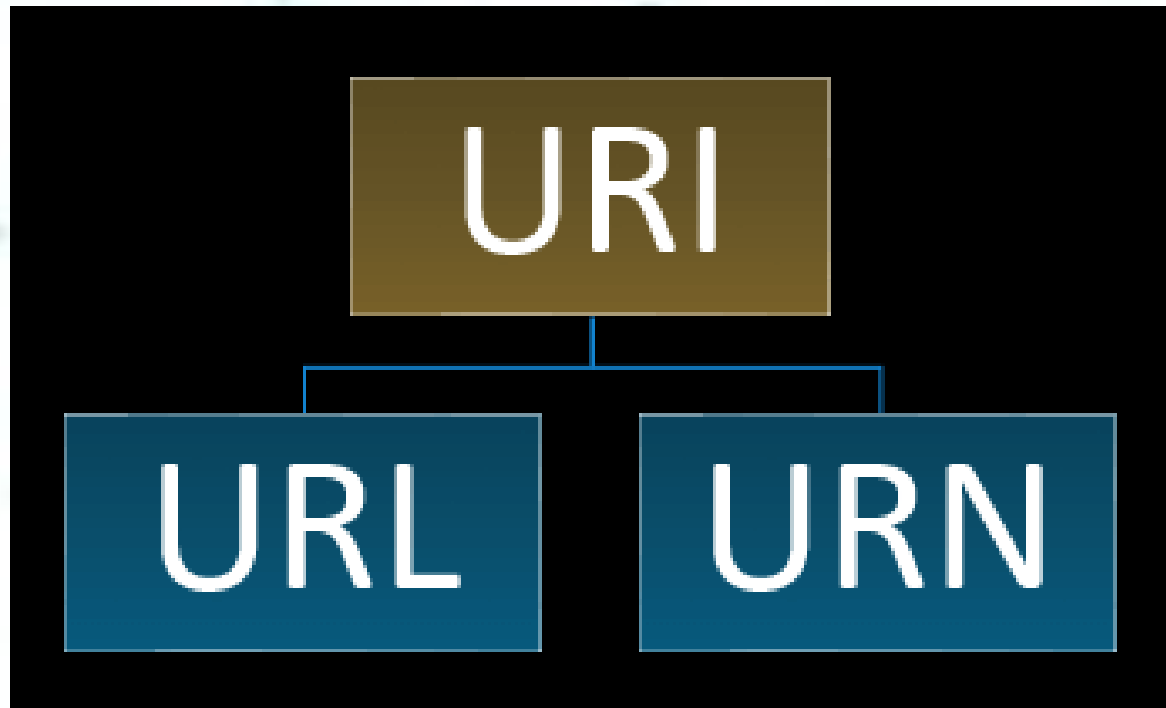
# URL –

- ✓ Uniform Resource Locator
- ✓ A URL has two main components
- **Protocol identifier:** http://example.com, the protocol identifier is **http**
- **Resource name:** http://example.com, the resource name is **example.com**



# URI – URL + URN

- ✓ URI = Uniform Resource Identifier (Name + Address)
- ✓ URL = Uniform Resource Locator (Address)
- ✓ URN = Uniform Resource Name (Name)



URL

URN

[https://en.wikipedia.org/wiki/Uniform\\_Resource\\_Identifier#Examples](https://en.wikipedia.org/wiki/Uniform_Resource_Identifier#Examples)

URI

## URI – URL + URN

- ✓ URI = Uniform Resource Identifier
- ✓ URL = Uniform Resource Locator
- ✓ URN = Uniform Resource Name

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# ISP –

- ✓ Internet Service Provider
- ✓ First ISP (India) = VSNL (Videsh Sanchar Nigam Limited) = 14 August 1995
- ✓ First ISP (World) = Telnet

**Q.64. In which year the IT act was enacted in India.?**

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**1) 2005**

**2) 1980**

**3) 2000**

**4) 1990**

**Q.65. Speed of Internet is measured in.?**

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**1) GHz**

**2) Gbps**

**3) GB**

**4) DPI**

**Q.66. In the context of internet what is the full form of URL .?**

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- 1) User Requested Link**
- 2) Ultimate Response Location**
- 3) Unique Request Locator**
- 4) Uniform Resource Locator**



**Q.67. Which of the following is an address that specifies the location of a web page.?**

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- 1) URL**
- 2) DNS**
- 3) HTML**
- 4) HTTP**

**Q.68. Small application programs that run on a Web page and may ensure a **form is completed properly** or provide animation are known as.?**

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- 1) flash**
- 2) spiders**
- 3) cookies**
- 4) applets**

- ✓ An **applet** is a Java program that runs in a Web browser.
- ✓ Now we use **Flash and JavaScript** for creating interactive programs on the web

**Q.69. Which of these is not a means of personal communication on the internet.?**

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- 1) Chat**
- 2) Instant Messaging**
- 3) Insta notes**
- 4) Electronic mail**

**Q.70. What is a CMS in web design.?**

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- 1) Content Management System**
- 2) Creative Management System**
- 3) Content Mixing System**
- 4) Creatives Managerial System**

**Q.71. To make your website mobile friendly, you can make your website.?**

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- 1) Responsive**
- 2) Reactive**
- 3) Fast Loading**
- 4) Light**

**Q.72. What does CSS stand for.?**

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- 1) Current Style Sheets**
- 2) Current Sheets Style**
- 3) Cascading Style Sheets**
- 4) Cascading Sheets Style**



**Internet & WWW = World Wide Web**

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## Q.73. What is WordPress.?

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- 1) It is a software used to press text
- 2) It is a text formatting software
- 3) It is a CMS (Content Management System)
- 4) It is mail service



**Q.74. Which of the following software could be used to build a website.?**

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- 1) Power Point**
- 2) Excel**
- 3) Dream Weaver**
- 4) ERP**

**Q.75. Which of the following is not a CMS.?**

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- 1) WordPress**
- 2) Drupal**
- 3) Magento**
- 4) SAP**

**Q.76. The equipment needed to allow home computers to connect to the Internet is called a.?**

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- 1) Modem**
- 2) Gateway**
- 3) Monitor**
- 4) Peripheral**

**Q.77. Which of the following protocols is used for WWW .?**

**1) FTP**

**2) HTTP**

**3) W3**

**4) All of these**

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**Q.78. Internet is governed by.?**

- 1) I & B**
- 2) IETF**
- 3) Inter NIC**
- 4) None of these**



**Q.79. Internet is .?**

- 1) Dynamic system**
- 2) Complex system**
- 3) Decentralized System**
- 4) All of these**

**Q.80. What is the full form of internet.?**

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- 1) InterContinental Network**
- 2) Internal Network**
- 3) Interconnected Network**
- 4) International Network**

**Q.81. Internet is governed by several voluntary organizations such as.?**

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- 1) IAB (Internet Architecture Board)**
- 2) IETF (Internet Engineering Task Force)**
- 3) InterNIC**
- 4) All of the above**



**Q.82. A \_\_\_\_\_ that contains billions of documents in the form of webpages, is one of the most popular services on the internet..?**

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- 1) Web**
- 2) Web internet**
- 3) Telnet**
- 4) FTP**

**Q.83. An interconnected network exclusively used within organizations such as banking, business firms, etc that uses web technologies for sharing data or information internally is called**

- 1) Protocol**
- 2) Intranet**
- 3) Internet**
- 4) hypertext**

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**Q.84. A computer network that is used to controlled access from outside of an organization's intranet is called.?**

**1) Intranet**

**2) Frame**

**3) Extranet**

**4) ISP**

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**Q.85. Every computer machine host on the internet network has.?**

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- 1) similar IP address**
- 2) unique 15-digit number**
- 3) unique IP address**
- 4) the same IP address**

**Q.86. Who is known as the father of Wikipedia.?**

- 1) John Smith**
- 2) Albert Brown**
- 3) Jimmy Wells**
- 4) Stephen Hawkins**

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**Q.87. Which of the following plays an important role in developing common protocols for the evolution of www.?**

- 1) Internet**
- 2) WWW Consortium**
- 3) Internet Architecture Board**
- 4) None of these**

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**Q.88. Which device is required to establish an internet connection on a computer.?**

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- 1) Modem**
- 2) Router**
- 3) ISP**
- 4) Both 1 and 2**



**Q.89. In HTTPS, S means.?**

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- 1) Secret
- 2) Secure**
- 3) Socket
- 4) Software



**Q.90. Which device is required to connect multiple computers on the same internet network.?**

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- 1) Modem**
- 2) Hotspots**
- 3) IAP**
- 4) Router**

**Q.91. A unique name used in the URLs that identify website is called.?**

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- 1) Domain name**
- 2) IP**
- 3) TCP**
- 4) Host**

**Q.92. Which of the following is the nature of the cookie.?**

- 1) Non-volatile**
- 2) Volatile**
- 3) Transient**
- 4) Intransient**

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**Q.93. Which standard network protocol is used to communicate between web browser and web server.?**

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**1) FTP**

**2) HTTP**

**3) IP**

**4) NTTP**

**Q.94. Which standard internet protocol provides secure data transmission between web server and browser with the help of encryption.?**

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- 1) HTTP
- 2) HTTPS
- 3) TELNET
- 4) ARPANET

**Q.95. A computer system, device, or program that is responsible for accepting HTTP requests from clients, serving back HTTP responses along with data to clients is called.?**

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- 1) Web**
- 2) Network Hub**
- 3) Web server**
- 4) FTP**

**Q.96. Which of the following is the most popular web server on the web.?**

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- 1) Apache**
- 2) Microsoft Internet Information Services (IIS)**
- 3) Sun Java System Web Server**
- 4) All of these**



**Q.97. The web server on the internet is also known as.?**

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- 1) hub
- 2) host**
- 3) gateway
- 4) repeater



**Q.98. Which of the following is the most popular activity on the internet.?**

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- 1) Shopping**
- 2) Entertainment**
- 3) Searching**
- 4) Video calling**

**Q.99. What does the internet term “thread” refer to.?**

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- 1) A series of linked messages**
- 2) A self replicating virus**
- 3) A category of browser**
- 4) A common fault in display devices**

## **Q.100. What is 'intranet'.?**



- 1) Internal internet used so transfer information internally**
- 2) Internal internet used to transfer information to the outside company.**
- 3) Internal network designed to serve the internal formational needs of a single organization.**
- 4) Internal network designed to transfer the information between two organizations**

**Q.101. \_\_ servers store and manages files for network users.**

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**1) Authentication**

**2) Main**

**3) Web**

**4) File**

**Q.102. We access the World Wide Web using .** **Arora Educator**



- 1) Browsers**
- 2) Instant messaging applications**
- 3) High bandwidth**
- 4) Search engine**

**Q.103. The Internet began with the development of.**

**1) USENET**

**2) ARPANET**

**3) Ethernet**

**4) Intranet**

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**Q.104. The internet is.**



- 1) a large network of networks**
- 2) an internal communication system for a business**
- 3) a communication system for the Indian government**
- 4) All of these**



# Networking

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**IP Address =**

**Internet Protocol Address**

**MAC Address =**

**Media Access Control Address**

# IP Address/MAC ADDRESS

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✓ **IP Address = Bits ?**

➤ **IPV-4 = 32 Bit = 4 Byte**

➤ **IPV-6 = 128 Bit = 16 Byte**

✓ **MAC Address = Bits ?**

➤ **48 Bit = 6 Byte**

**Q.1. Which of the following is valid IP address.?**

- 1) 984.12.787.76**
- 2) 192.168.321.10**
- 3) 1.888.234.3456**
- 4) 192.168.56.115**

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**Q.2. What is the format of IP address.?**

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- 1) 34 bit**
- 2) 64 bit**
- 3) 16 bit**
- 4) 32 bit**

# Q.3. Version 6 of IP address has how many bits.?

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- 1) 64 bits
- 2) 128 bits
- 3) 32 bits
- 4) 256 bits

**Q.4. Many desktops and operating systems include which protocol.?**

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- 1) IPv6 protocol**
- 2) IPv4 protocol**
- 3) Both IPv6 and IPv4 protocol**
- 4) IPv3 protocol**

## Q.5. What is the correct range of IP Address.?

1) 0-244

2) 1-255

3) 1-256

4) 0-255

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**Q.6. This address never changes & it is fixed in nature.?**

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- 1) IP Address
- 2) MAC Address
- 3) Logical Address
- 4) DNS



**Q.7. How many bits are there in the Ethernet address.?**

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**1) 64 bits**

**2) 48 bits**

**3) 32 bits**

**4) 16 bits**



# OSI Model



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# OSI Model

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- **OSI = Open Systems Interconnection**
- **Developed by = ISO (International Organization for Standardization).**
- **Year = 1984**
- **OSI model used by = IT professionals**
- **Purpose = Track the flow of = How data transfers in networks.**
- **Layers = 7**

# OSI Model = 7 Layers

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- 7) Application Layer = User Based
- 6) Presentation Layer = Encryption/Decryption
- 5) Session Layer = Security
- 4) Transport layer = TCP/UDP
- 3) Network Layer = IP Address
- 2) Data Link Layer = MAC Address
- 1) Physical Layer = Cables & Topology



**Q.8. OSI model developed in which year.?**

- 1) 1981**
- 2) 1990**
- 3) 1996**
- 4) 1984**

**Q.9. The \_\_\_\_\_ layer enables the users to access the network?**

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- 1) Transport
- 2) Application**
- 3) Data Link
- 4) Physical
- 5) All of these



**Q.10. How many layers are there in OSI model ?**

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1) 6

2) 7

3) 8

4) 5



# Networking

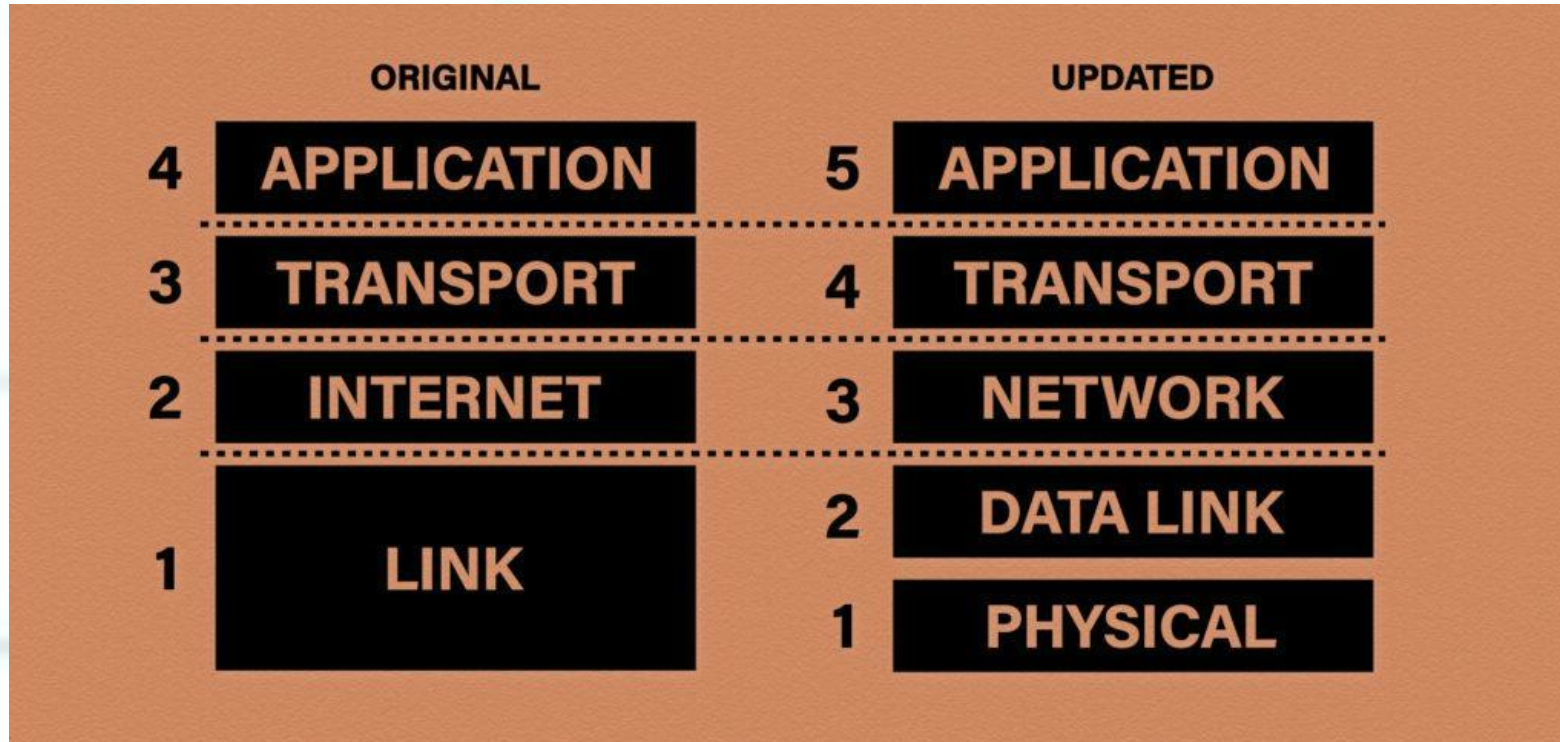
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# TCP/IP Network Model = 5 Layers

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Session & Presentation Layer = Absent

# TCP/IP Network Model

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- 1) Transmission Control Protocol/Internet Protocol**
- 2) TCP = Connection Oriented Protocol**
- 3) IP = Connectionless Protocol**
- 4) Developed in = 1970's**
- 5) Standard in = 1983**
- 6) Developed by = US Department of Defense**
- 7) Developer = Vint Cerf and Bob Kahn**
- 8) Layers = 5**

# Q.11. TCP/IP suite was created by whom.?

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- 1) DOD
- 2) ISO
- 3) OSI
- 4) IANA



**Q.12. TCP/IP is related to.?**

- 1) ARPANET**
- 2) ISO-OSI**
- 3) DECNET**
- 4) All of these**

# Q.13. TCP/IP model has how many layers.?

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1) 4

2) 5

3) 6

4) 7

**Q.14. TCP/IP model adopted as the protocol standard for ARPANET in which year.?**

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**1) 1970**

**2) 1984**

**3) 1970**

**4) 1983**



**Q.15. TCP/IP model does not have \_\_\_\_\_ layer but OSI model have this layer.?**

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- 1) Session layer**
- 2) Transport layer**
- 3) Application Layer**
- 4) Network Layer**

**Q.16. TCP/IP model was developed \_\_\_\_\_ the OSI model.?**

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- 1) Prior to**
- 2) After**
- 3) Simultaneous**
- 4) None of these**



**Q.17. Name the first layer of TCP/IP Model.?**

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- 1) Application Layer**
- 2) Transport Layer**
- 3) Physical Layer**
- 4) Data Link layer**

# Q.18. TCP/IP network layer was designed by.?

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- 1) OSI Scientists
- 2) IANA Scientists
- 3) Microsoft Scientists
- 4) DARPA Scientists

Vint Cerf and Bob Kahn

# Networking Devices =

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- 1) HUB = Physical Layer
- 2) Repeater = Physical Layer
- 3) Switch = Data Link Layer
- 4) Bridge = Data Link Layer + Physical Layer
- 5) Router = Network Layer
- 6) Gateway = All 7 Layer
- 7) Modem = Data Link Layer
- 8) Firewall = Network Layer

**Q.19. A device that connects networks with different protocols.?**

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- 1) Switch**
- 2) Hub**
- 3) Gateway**
- 4) Proxy Server**

**Q.20. It is a type of computer network device that provides interconnection with other networks that use the same protocol.?**

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- 1) Hub
- 2) Switch
- 3) Bridge
- 4) Gateway



# **Topology Types =**

- ✓ **Bus = Multipoint Connection**
- ✓ **Star = Hub**
- ✓ **Ring = Tokens**
- ✓ **Tree = Multiple Hub configure**
- ✓ **Mesh = Point to Point link, Reliable**
- ✓ **Hybrid = Combination of 2 or more**

# Q.21. Physical or logical arrangement of network is?

**1) Topology**

**2) Routing**

**3) Networking**

**4) Control**

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## Q.22. Which topology requires a multipoint connection?

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- 1) Star
- 2) Mesh
- 3) Ring
- 4) Bus



## Q.23. Which topologies have two or more Combination?

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- 1) Multigrid
- 2) Star Topology
- 3) Bus Topology
- 4) Hybrid

**Q.24. Which topology has the highest reliability?**

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**1) Mesh topology**

**2) Star topology**

**3) Ring Topology**

**4) Bus Topology**





**Q.25. Tokens are involved in a topology.?**

- 1) Star**
- 2) Hybrid**
- 3) Bus**
- 4) Ring**

**Q.26. A \_\_\_\_\_ topology is a combination of several different topologies.?**

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- 1) Tree
- 2) Hybrid
- 3) Duplex
- 4) Tertiary

**Q.27. For large networks \_\_\_\_\_ topology is used.?**

**1) Bus**

**2) Star**

**3) Ring**

**4) Irregular**

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**Q.28. In \_\_\_\_\_ topology if the computer cable is broken, networks get down.?**

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- 1) Bus**
- 2) Star**
- 3) Ring**
- 4) Tree**



# **Networking Types =**

- 1) LAN = Local Area Network**
- 2) MAN = Metropolitan Area Network**
- 3) WAN = Wide Area Network**
- 4) CAN = Campus Area Network**
- 5) PAN = Personal Area Network**
- 6) SAN = Storage Area Network**



# Networking

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# **Networking Types =**

- 1) LAN = Local Area Network**
- 2) MAN = Metropolitan Area Network**
- 3) WAN = Wide Area Network**
- 4) CAN = Campus Area Network**
- 5) PAN = Personal Area Network**
- 6) SAN = Storage Area Network**



# **Networking Types =**

- 1) Internet = All can Access**
- 2) Intranet = Only for Employees**
- 3) Extranet = b/w 2 companies**

# Data Travel in Network

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**OSI Model = PDU = Presentation Data Unit**

- 7) Application Layer = Data
- 6) Presentation Layer = Data
- 5) Session Layer = Data
- 4) Transport layer = Segments
- 3) Network Layer = Packets
- 2) Data Link Layer = Frames
- 1) Physical Layer = Bits

# Protocols = OSI Model =

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- 7) Application Layer = HTTP, SMTP, DHCP, FTP, Telnet
- 6) Presentation Layer = TLS, SSL, MIME
- 5) Session Layer = PPTP
- 4) Transport layer = TCP, UDP
- 3) Network Layer = IP, ARP, ICMP
- 2) Data Link Layer = Point-to-Point Protocol
- 1) Physical Layer = IEEE 802.3 (Ethernet)



# Networking Modes =

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- 1) Simplex = Keyboard - Monitor
- 2) Half Duplex = Walkie Talkie
- 3) Full Duplex = Mobile/Video Conferencing

## SIMPLEX

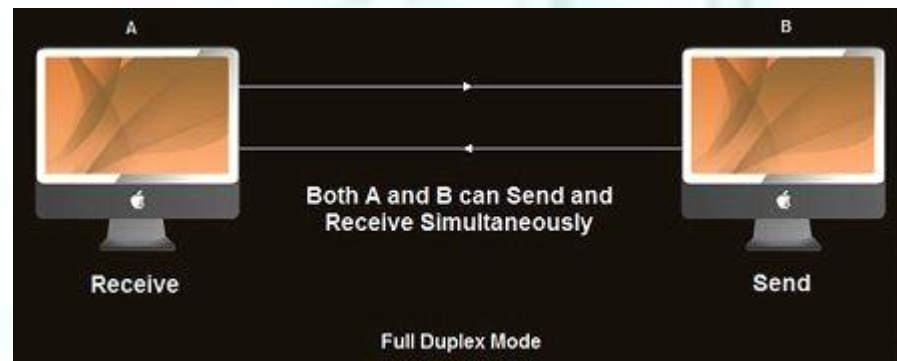


Data travels only in one direction

## HALF-DUPLEX



Data travels in both direction but only one at a time



# Networking Cables = Guided Media

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## 1) Twisted Pair Cable

- Shielded = Used in Factory
- Unshielded = LAN Connection

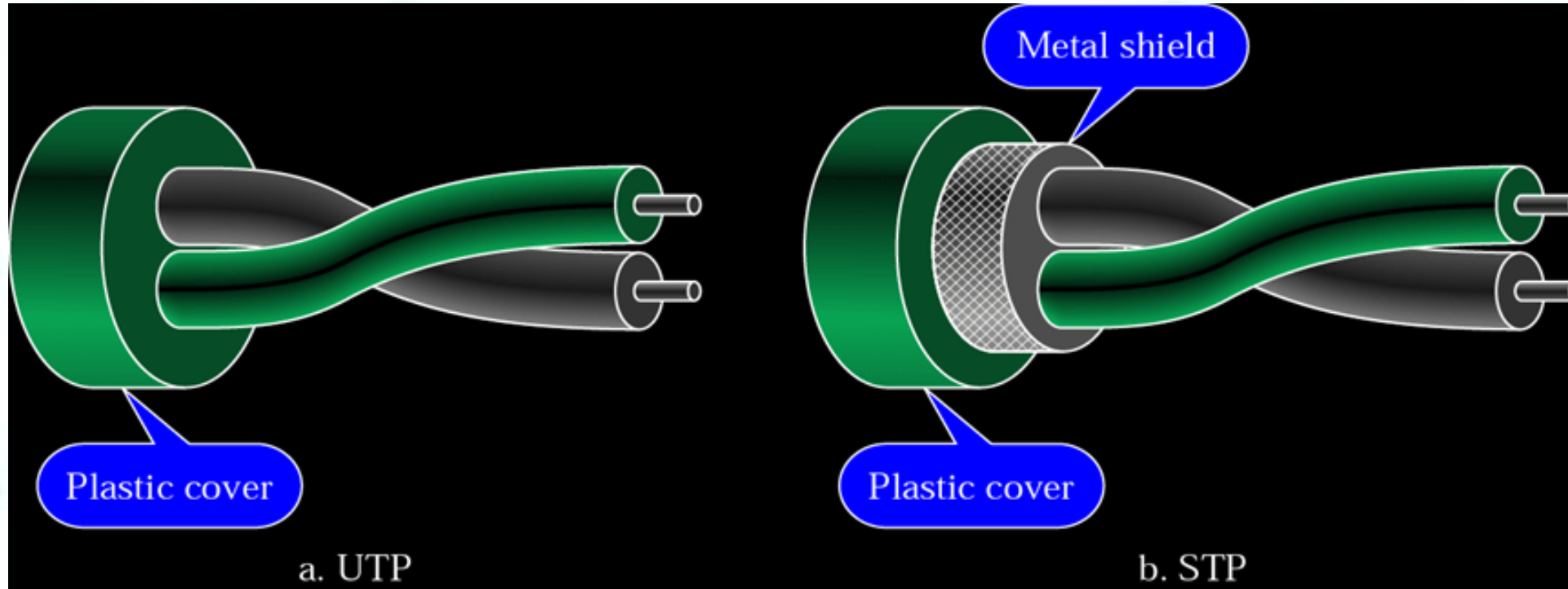
## 2) Co-Axial Cable = TV Cable

## 3) Fibre Optic Cable = Under Sea = Fastest = Broadband Connection



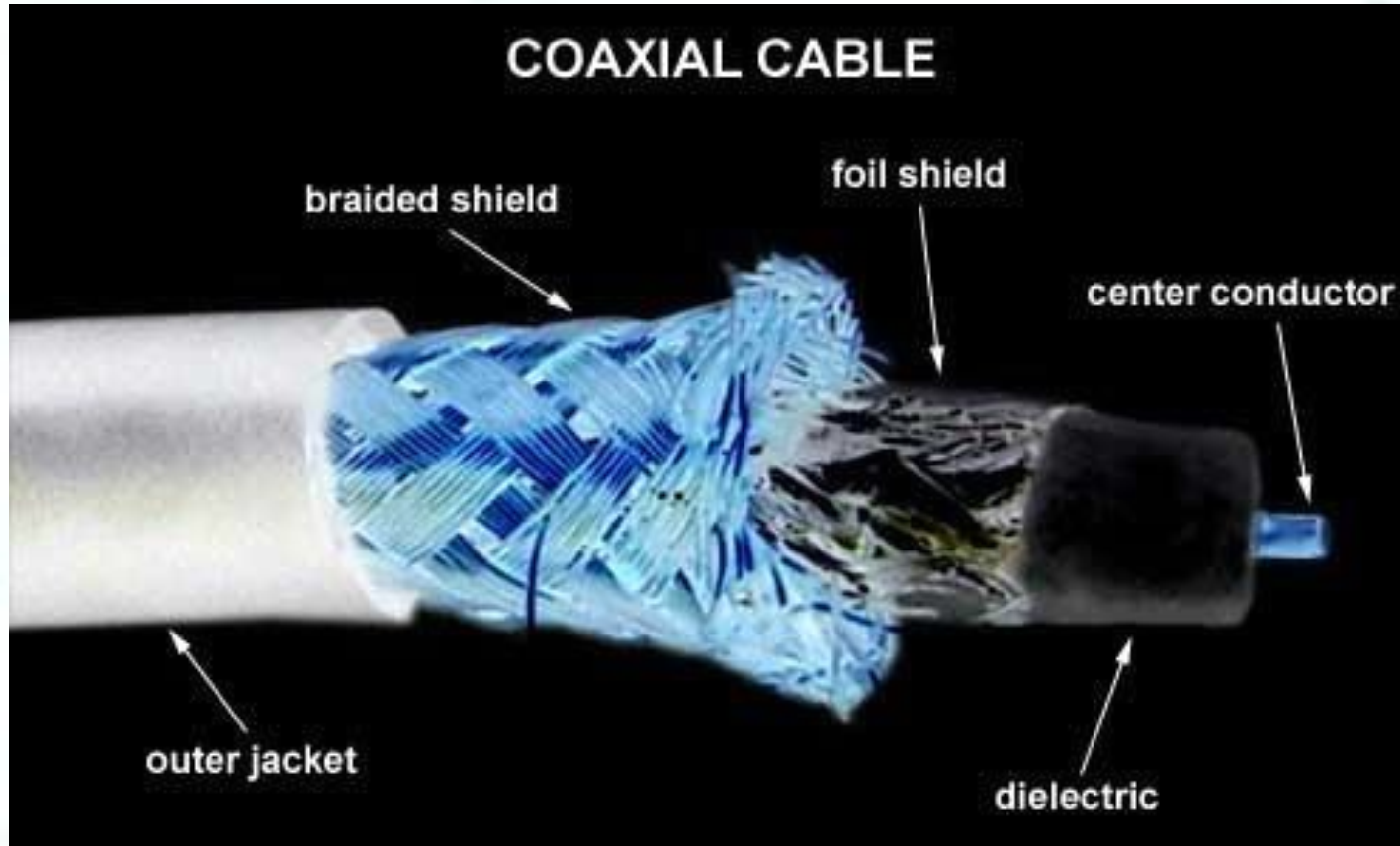
# Networking Cables =

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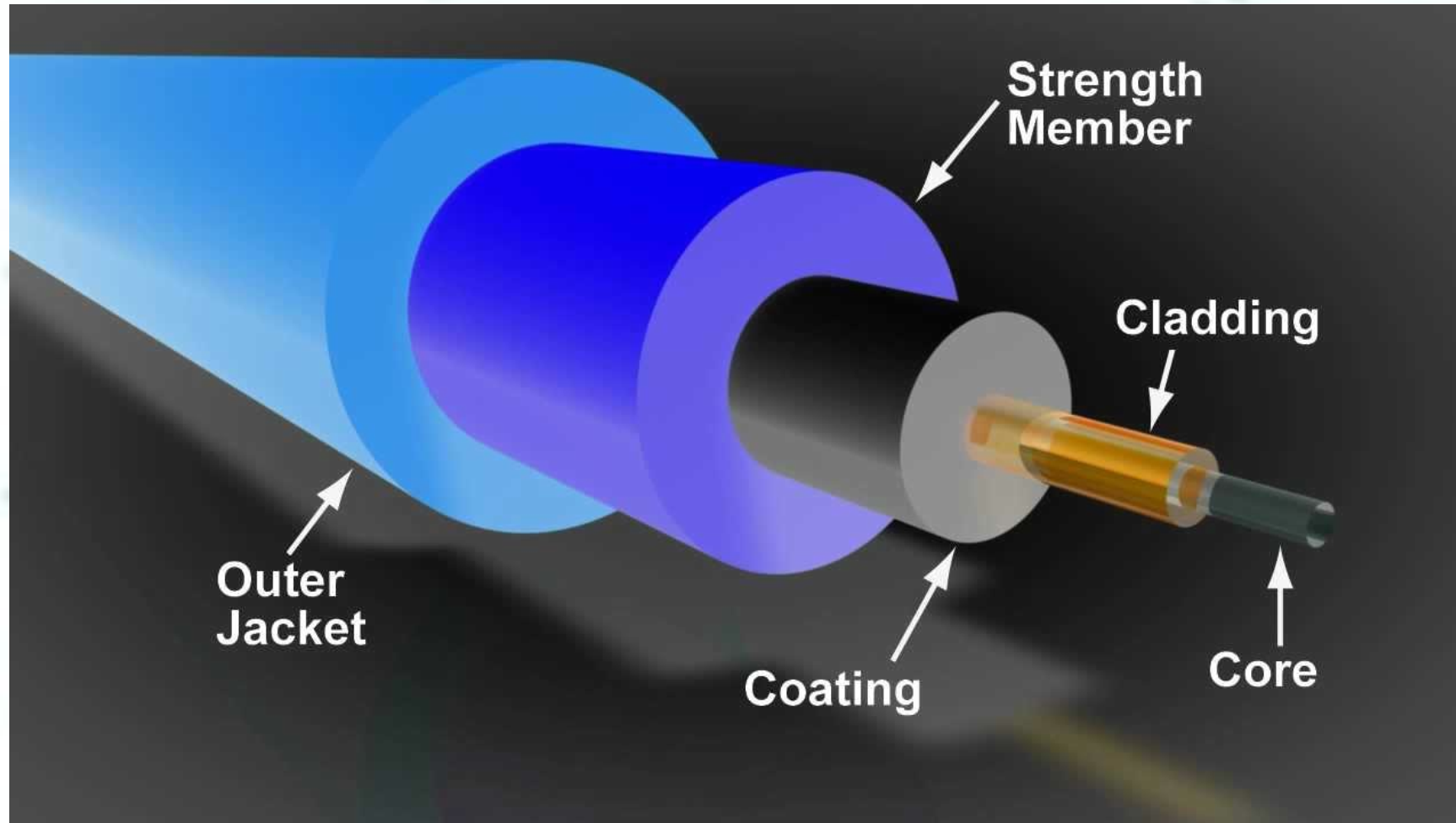
# Networking Cables =

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# Fibre Optic Cable

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# What is Port in Networking ?

- 1) Used to identify the senders and receivers of messages in computer networking.
- 2) Ports deal in = 4<sup>th</sup> Layer in OSI Model = Transport Layer
- 3) Each host can have = 65535 ports per IP address



# Port Number of Various Protocols

1) FTP = File Transfer Protocol = 20/21

FTP = 21 = Connection between 2 computer

FTP = 20 = Transfer Data

2) SFTP = SSH (Secure Shell) File Transfer Protocol = 22

3) Telnet = 23

4) SMTP = Simple Mail Transfer Protocol = 25



# Port Number of Various Protocols

- 5) DNS = Domain Name System = 53
- 6) DHCP = Dynamic Host Configuration Protocol = 67/68
  - DHCP Server = 67 (Client Send to Server)
  - DHCP Client = 68 (Server Send to Client)
- 7) HTTP = Hypertext Transfer Protocol = 80





# Port Number of Various Protocols

- 8) POP3 = Post Office Protocol Version 3 = 110
- 9) IMAP = Internet Message Access Protocol = 143
- 10) IRC = Internet Relay Chat = 194
- 11) HTTPS (S = Secure) = 443





# Networking

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# Networking

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## IEEE Standard

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IEEE's core purpose is to = foster  
**technological innovation** and  
excellence for the **benefit of**  
**humanity.**

# IEEE Standard=

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- 1) IEEE 802.1 = LAN Protocol
- 2) IEEE 802.2 = Logical Link Control
- 3) IEEE 802.3 = Ethernet
- 4) IEEE 802.4 = Token Bus
- 5) IEEE 802.5 = Token Ring
- 6) IEEE 802.6 = MAN
- 7) IEEE 802.11 = WLAN (WI-FI)
- 8) IEEE 802.14 = Cable Modems
- 9) IEEE 802.15 = PAN
- 10) IEEE 802.15.1 = Bluetooth
- 11) IEEE 802.16 = WIMAX

Worldwide Interoperability for Microwave Access

**Q. – How many classes are there in IP Address ?**

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**1. 3 Classes**

**2. 4 Classes**

**3. 2 Classes**

**4. 5 Classes**

**5. 6 Classes**

# IP Address Classes

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- ✓ **CLASS A = 1.0.0.0 to 126.0.0.0**
- ✓ **CLASS B = 128.0.0.0 to 191.255.0.0**
- ✓ **CLASS C = 192.0.0.0 TO 223.255.255.0**
- ✓ **CLASS D = 224 to 239 = used for Multicast**
- ✓ **CLASS E = 240 to 255 = used for Research**



**Q.– This IP – 20.100.200.15 belongs to which class ?**

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**CLASS A = 1.0.0.0 to 126.0.0.0**

**CLASS B = 128.0.0.0 to 191.255.0.0**

**CLASS C = 192.0.0.0 TO 223.255.255.0**

**CLASS D = 224 to 239 = used for Multicast**

**CLASS E = 240 to 255 = used for Research**

**1. CLASS A**

**2. CLASS B**

**3. CLASS C**

**4. CLASS D**

**5. CLASS E**

**Q. – This IP – 137.20.20.10 belongs to which class ?**

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**CLASS A = 1.0.0.0 to 126.0.0.0**

**CLASS B = 128.0.0.0 to 191.255.0.0**

**CLASS C = 192.0.0.0 TO 223.255.255.0**

**CLASS D = 224 to 239 = used for Multicast**

**CLASS E = 240 to 255 = used for Research**

**1. CLASS A**

**2. CLASS B**

**3. CLASS C**

**4. CLASS D**

**5. CLASS E**



**Q. – This IP – 201.100.10.0 belongs to which class ?**

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**CLASS A = 1.0.0.0 to 126.0.0.0**

**CLASS B = 128.0.0.0 to 191.255.0.0**

**CLASS C = 192.0.0.0 TO 223.255.255.0**

**CLASS D = 224 to 239 = used for Multicast**

**CLASS E = 240 to 255 = used for Research**

**1. CLASS A**

**2. CLASS B**

**3. CLASS C**

**4. CLASS D**

**5. CLASS E**

**Q. – This IP – 15.200.200.200 belongs to which class ?**

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**1. CLASS A**

**2. CLASS B**

**3. CLASS C**

**4. CLASS D**

**5. CLASS E**

**CLASS A = 1.0.0.0 to 126.0.0.0**

**CLASS B = 128.0.0.0 to 191.255.0.0**

**CLASS C = 192.0.0.0 TO 223.255.255.0**

**CLASS D = 224 to 239 = used for Multicast**

**CLASS E = 240 to 255 = used for Research**

# Subnet Mask

## Subnet Mask –

- ✓ A subnet mask is a number that defines a range of IP addresses available within a network.

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# Subnet Mask

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## SUBNET MASK IN IP ADDRESSING

**Class A**  
Subnet Mask

Netwok	Host	Host	Host
255	0	0	0

**Class B**  
Subnet Mask

Netwok	Network	Host	Host
255	255	0	0

**Class C**  
Subnet Mask

Netwok	Network	Network	Host
255	255	255	0

# Q. What is the Subnet Mask of Class A IP Addressing.?

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**1. 255.0.0.0**

**2. 255.255.0.0**

**3. 255.255.255.0**

**4. 255.255.255.255**

**5. None of these**

# Q. What is the Subnet Mask of Class B IP Addressing.?

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1. 255.0.0.0

2. 255.255.0.0

3. 255.255.255.0

4. 255.255.255.255

5. None of these



# Q. What is the Subnet Mask of Class C IP Addressing.?

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1. 255.0.0.0
2. 255.255.0.0
3. 255.255.255.0
4. 255.255.255.255
5. None of these



# OSI MODEL – PROTOCOLS USED

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## ARP- Address Resolution Protocol.



- IP Address is known, find the MAC Address.

## RARP- Reverse Address Resolution Protocol.

- MAC Address is known, find the IP Address.

BY- SACHIN ARORA SIR

# DNS

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- ✓ Domain Name System convert Domain Name into IP address.
- ✓ The Domain Name System (DNS) is the phonebook of the Internet.
- ✓ Every time you visit a website, you are interacting with the largest distributed database in the world. This massive database is collectively known as the DNS, or the Domain Name System.



# Wireless Technology Or Unguided Media

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# Types of Wireless Technology

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**4 different types of wireless networks technology -**

- 1- WLAN = Wireless Local Area Network**
- 2- WMAN = Wireless Metropolitan Area Network**
- 3- WWAN = Wireless Wide Area Networks**
- 4- WPAN = Wireless Personal Area Network**

# Types of Wireless Technology

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## 1- WLAN = Wireless Local Area Network

- 1- Coverage = Within a building or campus
- 2- Use of = Radio Waves + Infrared Waves + Microwave
- 3- Networking Devices = Router & Access Points
- 4- Example = WI-FI (wireless fidelity)
- 5- IEEE Standard = 802.11

Institute of Electrical and Electronics  
Engineers

# Types of Wireless Technology

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## 2- WMAN = Wireless Metropolitan Area Network

1- Coverage = Within a City

2- Use of = Radio Waves + Infrared Waves + Microwave

3- Networking Device = Microwaves and Satellites

4- IEEE Standard = 802.16, and WIMAX

5- WIMAX = Wireless Interoperable Metropolitan Area Exchange



# Types of Wireless Technology

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## 3- WWAN = Wireless Wide Area Networks

- 1- Also Called = Wireless Broadband
- 2- Based on = Cellular Technology
- 2- Coverage = Worldwide
- 3- Standard = CDPD and Cellular 2G, 2.5G, 3G, 4G, 5G
- 4- Security = Encryption Security (128 bit Encryption) + VPN (Virtual Private Network)
- 5- Technologies = GSM (Global System for Mobile Communication), CDMA (Code Division Multiple Access), GPRS (General packet radio service)



# Types of Wireless Technology

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## 4- WPAN = Wireless Personal Area Network

1-Coverage = Short-distance wireless network technology

2-Technology include =

- ✓ Infrared
- ✓ Wireless USB
- ✓ Bluetooth
- ✓ Hotspot
- ✓ ZigBee
- ✓ Z-wave

# Types of Wireless Technology

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## 4- WPAN = Wireless Personal Area Network

3-Devices include =

- ✓ Phone headsets
- ✓ Wireless Keyboards
- ✓ Wireless Mice
- ✓ Printers
- ✓ Bar code scanners
- ✓ Game consoles

4-IEEE Standard = IEEE 802.15



WAVES	FREQUENCIES	WAVELENGTH	DIRECTION	DEVICES
RADIO WAVES	3 KHz - 1 GHz	1 mm - 100 km	OMNIDIRECTIONAL	MOBILE PHONE, SATELLITE, TV, CELLULAR PHONES, FM
MICRO WAVES	1 GHz - 300 GHz	0.3 m - 3 mm	UNIDIRECTIONAL	WIRELESS NETWORK, RADAR, CANCER TREATMENT, MICROWAVE OVEN
INFRARED WAVES	300 GHz +	700 nm - 1 mm	UNIDIRECTIONAL	OPTICAL FIBER CABLE, REMOTE, DOORS

# Networking

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# WI-FI

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- 1) Stands for = Wireless Fidelity
- 2) Invented by = Hedy Lamarr
- 3) Waves = Radio
- 4) Created in = 1991 = Netherland = NCR Corporation + AT&T Corporation





## 5) WI-FI Technologies Types =

Wi-Fi-802.11a = WiFi 2 = 54 Mbps

Wi-Fi-802.11b = WiFi 1 = 11 Mbps

Wi-Fi-802.11g = WiFi 3 = 54 Mbps

Wi-Fi-802.11n = WiFi 4 = 600 Mbps

Wi-Fi-802.11ac = WiFi 5 = 1.3 Gbps

Wi-Fi-802.11ax = = WiFi 6 = 10-12 Gbps



## 5) WI-FI Technologies Types =

IEEE Standard	802.11a	802.11b	802.11g	802.11n	802.11ac	802.11ax
Year Released	1999	1999	2003	2009	2014	2019
Frequency	5Ghz	2.4GHz	2.4GHz	2.4Ghz & 5GHz	2.4Ghz & 5GHz	2.4Ghz & 5GHz
Maximum Data Rate	54Mbps	11Mbps	54Mbps	600Mbps	1.3Gbps	10-12Gbps



# WI-FI

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6) WI-FI Speed = Mbps

7) WI-FI Frequencies = 2.4 GHz & 5 GHz

8) WI-FI also called = Wireless LAN

9) Device = WNIC = Wireless Network Interface  
Controller

10) WI-FI uses = OFDM = Orthogonal Frequency Division  
Multiplexing

11) WI-FI Security Standard = 4 Standard

✓ WEP = Wired Equivalent Privacy

✓ WPA = Wi-Fi Protected Access

✓ WPA2 = Wi-Fi Protected Access 2

✓ WPA3 = Wi-Fi Protected Access 3

# WI-FI

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## 11) WI-FI Security Standard = 4 Standard

- ✓ WEP = Wired Equivalent Privacy = Least Strongest Security
- ✓ WPA = Wi-Fi Protected Access = TKIP Protocol
- ✓ WPA2 = Wi-Fi Protected Access 2 = CCMP Protocol + AES + 128 bit encryption
- ✓ WPA3 = Wi-Fi Protected Access 3 = Strongest Wireless Security + DPP Protocol + 256 bit encryption

**TKIP** = Temporal Key Integrity Protocol

**CCMP** = Counter Mode Cipher Block Chaining  
Message Authentication Code Protocol

**AES** = Advanced Encryption Standard

**DPP** = Device Provisioning Protocol



**Q.1. WI-FI stands for .?**

- 1) Wireless Function**
- 2) Wireless Fidelity**
- 3) Wireless Functioning**
- 4) Wireless Formatting**
- 5) None of these**



Q.2. Wireless communication started in.?

1) 1869

2) 1895

3) 1879

4) 1885

5) None of these

**1885** – Thomas Edison patented a system of wireless communication by electrostatic induction



**Q.3. WI-FI was invented in which year .?**

**1) 1991**

**Introduced = 21 September 1998**

**2) 1997**

**3) 1998**

**4) 1957**

**5) 1967**



**Q.4. IEEE standard for WI-FI is .?**

**1) 802.4**

**2) 802.5**

**3) 802.3**

**4) 802.11**

**5) 802.8**

**IEEE 802.11 = WLAN**





**Q.5. First version of WI-FI is.?**

- 1) 802.11a**
- 2) 802.11b**
- 3) 802.11g**
- 4) 802.11n**
- 5) 802.11ac**





**Q.6. Latest version of WI-FI is.?**

- 1) 802.11a**
- 2) 802.11b**
- 3) 802.11g**
- 4) 802.11ax**
- 5) 802.11ac**

**Q.7. WI-FI 802.11ax version is also called as.?**



**1) Wi-Fi 4**

**2) Wi-Fi 5**

**3) Wi-Fi 6**

**4) Wi-Fi 3**

**5) Wi-Fi 2**

**Q.8. WI-FI 802.11ac version is also called as.?**



**1) Wi-Fi 4**

**2) Wi-Fi 5**

**3) Wi-Fi 6**

**4) Wi-Fi 3**

**5) Wi-Fi 2**

**Q.9. WI-FI 802.11n version is also called as.?**



**1) Wi-Fi 4**

**2) Wi-Fi 5**

**3) Wi-Fi 6**

**4) Wi-Fi 3**

**5) Wi-Fi 2**



**Q.10. WI-FI speed is measured in .?**

- 1) Hertz**
- 2) Bps**
- 3) MBPS**
- 4) Mbps**
- 5) RPM**



**Q.11. WI-FI frequencies are classified in .?**

- 1) 5 GHz & 10 GHz**
- 2) 1 GHz & 5 GHz**
- 3) 1.4 GHz & 2.4 GHz**
- 4) 2.4 GHz & 5 GHz**
- 5) 5.5 GHz & 10 GHz**



**Q.12. WI-FI network is called.?**

- 1) LAN**
- 2) MAN**
- 3) CAN**
- 4) WLAN**
- 5) All of these**





**Q.13. Prevention of unauthorized access of using WI-FI networks called.?**

- 1) Firewall**
- 2) Antivirus**
- 3) Both of these**
- 4) Wireless Security**
- 5) Wireless Access**



**Q.14. Which among them has the strongest wireless security.?**

- 1) WEP**
- 2) WPA**
- 3) WPA2**
- 4) WPA3**



**Q.15. Which among the following is the least strong security encryption standard.?**

**1) WEP**

**W**ired **E**quivalent **P**rivacy

**2) WPA**

**3) WPA2**

**4) WPA3**

**Q.16. Which standard is not used in WI-FI data transmissions.?**



- 1) 802.11g**
- 2) 802.11a**
- 3) 802.11ac**
- 4) 802.11q**
- 5) 802.11b**

**Q.17. Which short-range wireless standard is used for Wireless Personal Area Networks (WPANs)?**



**1) 802.16**

**2) 802.15**

**3) 802.8**

**4) 802.11**

**5) All of these**



**Q.18. Which wireless protocol uses TKIP?**

- 1) WEP**
- 2) WPA**
- 3) WPA2**
- 4) WPS**
- 5) All of these**



**Q.19. What is Wired Equivalent Privacy (WEP).?**

- 1) Security algorithm for ethernet**
- 2) Security algorithm for wireless networks**
- 3) Security algorithm for usb communication**
- 4) Security algorithm for emails**
- 5) All of these**





**Q.20. WI-FI uses which kind of multiplexing ?**

**1) OFDM**

**Orthogonal Frequency Division  
Multiplexing**

**2) TDM**

**3) WDM**

**4) CDM**

**5) None of these**

**Q.21. Router device sends and receive which signals in a wireless network. ?**



- 1) Radio**
- 2) Digital**
- 3) Analog**
- 4) 2 & 3**
- 5) All of these**

**Q.22. A wireless network uses which waves to transmit signals.?**



- 1) Mechanical**
- 2) Radio**
- 3) Sound**
- 4) All of these**
- 5) None of these**

**Q.23. Which multiple access technique is used by IEEE 802.11 standard for wireless LAN ?**



**1) CDMA**

**2) CSMA/CA**

**3) ALOHA**

**4) CSMA/CD**

**5) None of these**

**Carrier-Sense Multiple  
Access/Collision Avoidance**

**Q.24. Device that creates a wireless local area network, or WLAN, usually in an office or large building. ?**



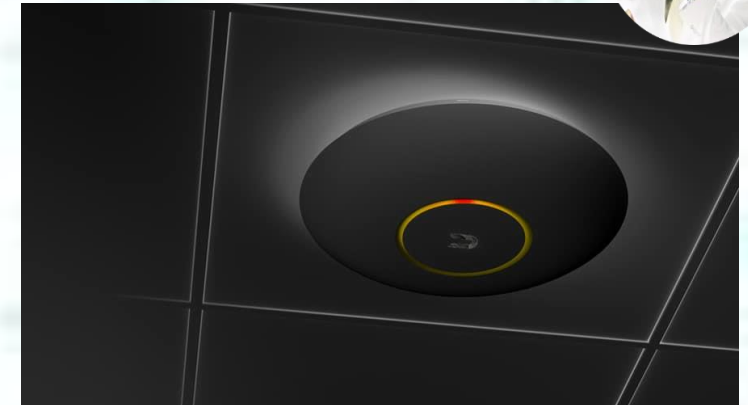
1) WPA **W**ireless **A**ccess **P**oint

2) WPA2

3) WEP

4) WAP

5) None of these





**Q.25. To communicate without wire, computers and end devices require a. ?**

- 1) Token Ring**
- 2) Ethernet**
- 3) Cables**
- 4) WNIC**
- 5) All of these**

**Wireless Network Interface Controller**

# **Topic : Database**



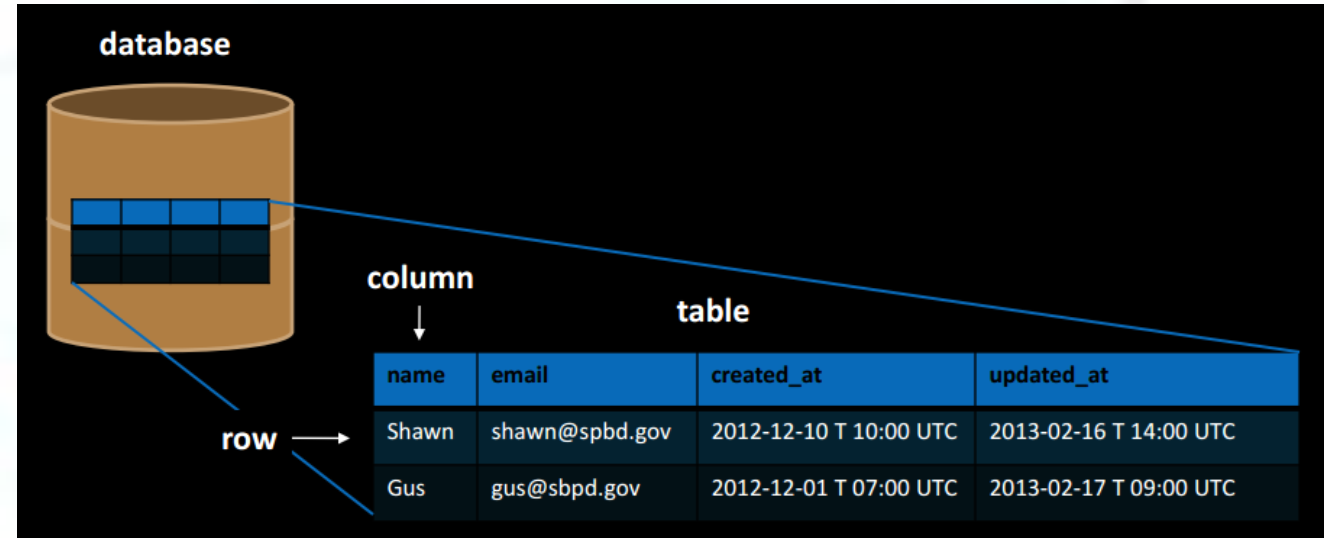


# Data Hierarchy

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- Bits
- Bytes/Characters
- Fields (columns)
- Records (rows)
- Files (table)
- Database



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# Ascending order of data hierarchy is?

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- 1- bit byte record field file database
- 2- bit byte field record file database
- 3- byte bit field record file database
- 4- byte bit field file record database
- 5- None of these

**Ans (2) – bit byte field record file database**

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## **Examples of Database Software Programs**

- ✓ **IBM DB2**
- ✓ **Microsoft Access**
- ✓ **Microsoft Excel**
- ✓ **Microsoft SQL Server**

- ✓ **MySQL**
- ✓ **Oracle RDBMS**
- ✓ **Quick Base**
- ✓ **SAP Sybase ASE**



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# **Database Architecture**

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# Database Architecture

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**There are three types of DBMS architecture:**

- 1. Single tier architecture**
- 2. Two tier architecture**
- 3. Three tier architecture**

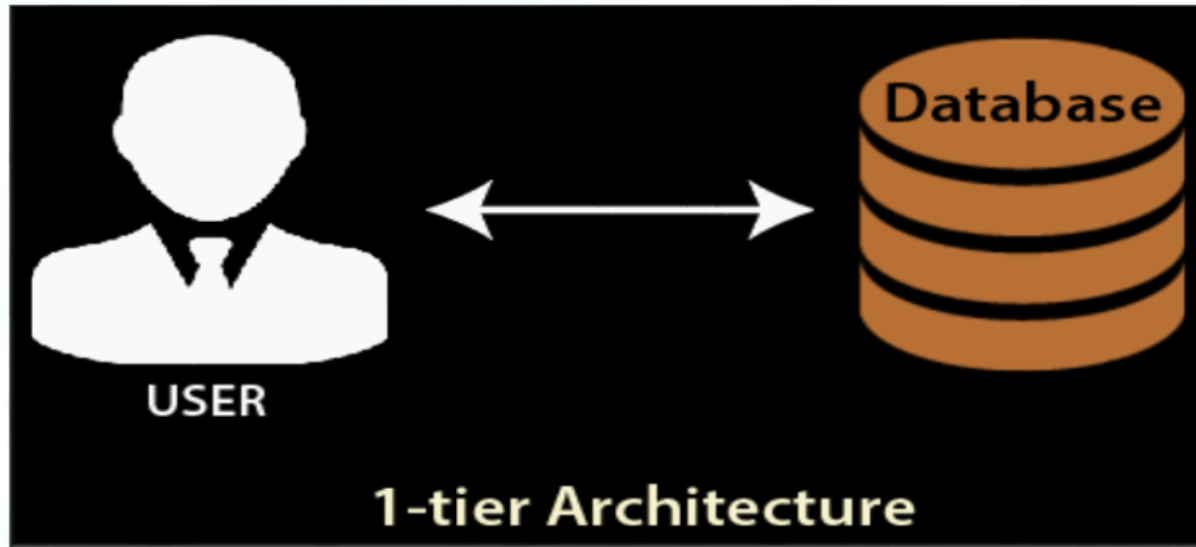
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# Database Architecture

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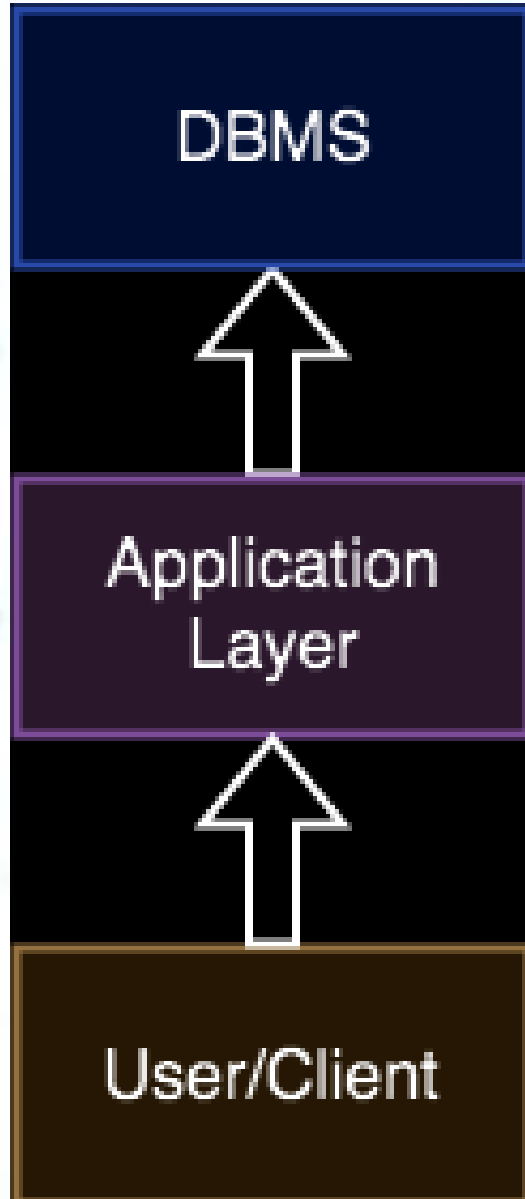
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## 2. Two tier architecture

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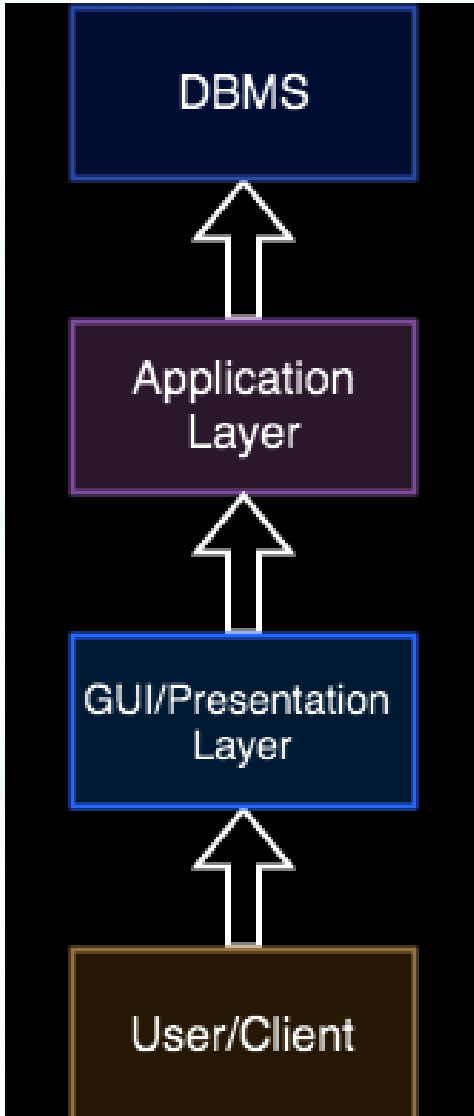


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### 3. Three tier architecture

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**Q.1. Application resides in client machine & database is at server machine is called.?**

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- 1) One-tier architecture
- 2) Two-tier architecture
- 3) Three-tier architecture
- 4) All of these
- 5) None of these

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## Q.2. A database is the complex type of the.?

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1) Application

2) Data Structure

3) Manager

4) File

5) Syntax

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# Q.3. Architecture of a database can be viewed as?

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1) 2 Level

2) 4 Level

3) 3 Level

4) One Level

5) All of these

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# Q.4. The Database Schema is written in?

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1) HLL

2) DML

3) DDL

4) DCL

5) DQL

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# **ER Model**

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# ER Model

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- ✓ ER model stands for = Entity-Relationship model.
- ✓ Introduced By = Peter Chen in 1976.
- ✓ It describes the = structure of a database with the help of a diagram.
- ✓ ER model is used to represent real-world objects.
- ✓ E-R model specifically deals with = entities and their relations.

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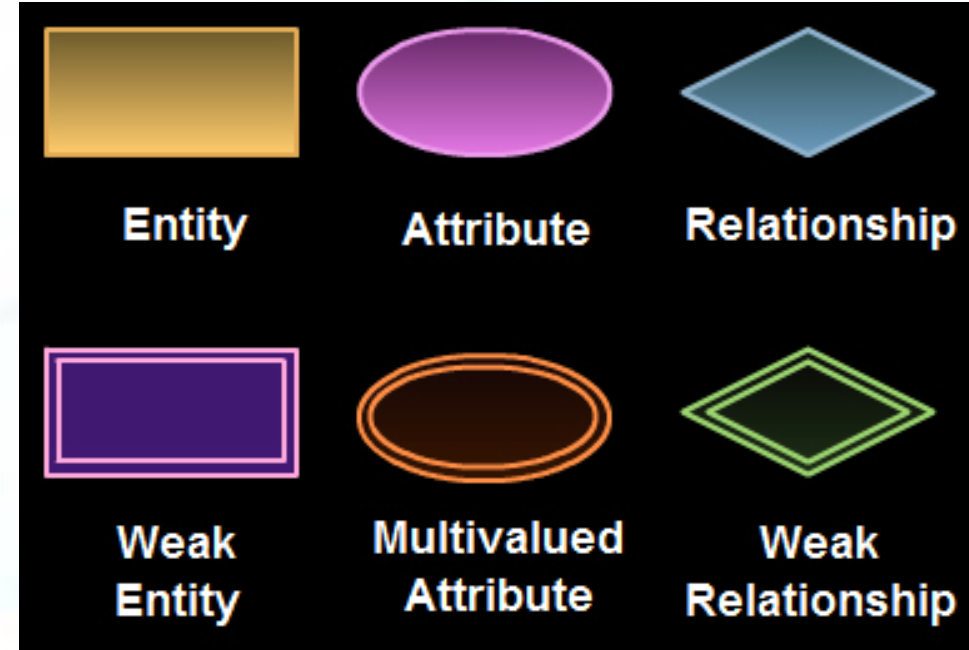


# ER Model Symbols

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Name	Symbol	Meaning
Oval		Shows different attributes
Rectangle		Shows entity set
Diamond		Show relationship among entity set
Line		Links entity set to attributes & entity set to relationship



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# **ER Model Questions**

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**Q.5. In an E-R diagram rectangle with rounded corners represents. ?**

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**A) Entity class**

**B) Weak entity**

**C) Relationship**

**D) Attribute**

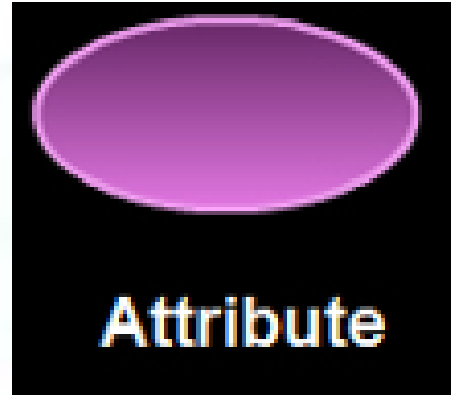


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# Q.6. In an E-R diagram a ellipse represents.?

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- A) Weak entity
- B) Relationship
- C) Attribute**
- D) Entity class

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# Q.7. In an E-R diagram a relationship is represented by ?

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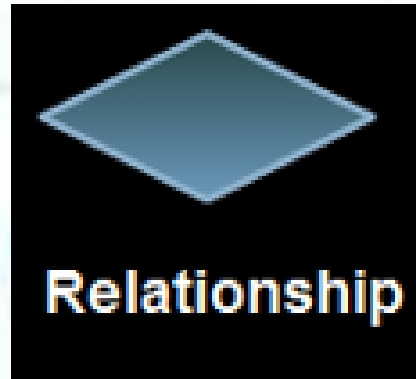


A) Ellipse

B) Rectangle

C) Rectangle with rounded corners

D) Diamond



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**Q.8. An entity type whose existence depends on another entity type is called \_\_\_\_\_ entity?**

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**A) Strong**

**B) Weak**

**C) Dependent**

**D) Variant**

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**Q.9. A person name, birthday and social security number are all examples of \_\_\_\_\_?**

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**A) Entities**

**B) Attributes**

**C) Relationships**

**D) Descriptors**

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# **Topic : Database**



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# **Transaction & Concurrency Control**

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# Transaction

- ✓ Transaction is a bundle of instructions which performs a logical unit of work.
- ✓ Transaction is Atomic in nature. (Either all instructions under Transaction will execute or none can execute)
- ✓ Transaction ACID Properties =
  - Atomicity (Yes/No)
  - Consistency (Before=After)
  - Isolation (Logical Insolation)
  - Durability

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**Q.10. Which of the following is NOT a property of database transactions.?**

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**1) Consistency**

**2) Insulation**

**3) Atomicity**

**4) Durability**

**5) All of these**

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**Q.11. The “all-or-none” property is commonly referred to as.?**

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- 1) Isolation**
- 2) Durability**
- 3) Atomicity**
- 4) All of these**
- 5) None of these**

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**Q.12. Execution of translation in isolation preserves the \_\_\_\_\_ of a database.?**

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**1) Atomicity**

**2) Consistency**

**3) Durability**

**4) All of these**

**5) None of these**

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# Open Source DBMS

- 1) MySQL
- 2) PostgreSQL
- 3) MariaDB
- 4) SQLite

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# Closed Source DBMS

- 1) Oracle
- 2) IBM DB-2
- 3) SAP HANA
- 4) Microsoft SQL

Systems Applications and Products  
High-performance Analytic Appliance

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**Q.13. Which of the following is an Open Source DBMS?**

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**1) MySQL**

**2) Microsoft SQL Server**

**3) Microsoft Access**

**4) Oracle**

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**5) All of these**

**Q.14. Among the professional (paid) database management systems, \_\_\_\_\_ is the most popular.?**

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**1) IBM DB2**

**2) SAP HANA**

**3) Oracle**

**4) Microsoft SQL Server**

**5) None of these**

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**Q.15. Oracle, IBM DB2, SAP HANA & Microsoft SQL server are database management \_\_\_\_\_ tools.?**

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**1) Professional (paid)**

**2) Free/ Open source**

**3) Outdated**

**4) Unsuitable**

**5) None of these**

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**Q.16. MySQL, PostgreSQL, MariaDB & SQLite are \_\_\_\_\_ database management tools.?**

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**1) Professional (paid)**

**2) Free/ open source**

**3) Outdated**

**4) Unsuitable**

**5) None of these**

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**Q.17. \_\_\_\_ is the most popular database management system in the embedded (mobile phones/ tablets) category.?**

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**1) MySQL**

**2) SQLite**

**3) Oracle**

**4) PostgreSQL**

**5) All of these**

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**Q.18. A Database Management System is a type of \_\_\_\_\_ software.?**

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- 1) It is a type of system software**
- 2) It is a kind of application software**
- 3) It is a kind of general software**
- 4) All of these**
- 5) None of these**

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**Q.19. A huge collection of the information or data accumulated from several different sources is known as.?**

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**1) Data Management**

**2) Data Mining**

**3) Data Warehouse**

**4) Data Stock**

**5) All of these**

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**Q.20. Which of the following can be used to extract or filter the data & information from the data warehouse.?**

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**1) Data Management**

**2) Data Mining**

**3) Data Redundancy**

**4) Data Stock**

**5) All of these**

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**Q.21. Which one of the following refers to the copies of the same data (or information) occupying the memory space at multiple places.?**

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- 1) Data Repository**
- 2) Data Inconsistency**
- 3) Data Mining**
- 4) Data Redundancy**
- 5) All of these**

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**Q.22. Which one of the following refers to the "data about data".?**

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- 1) Directory**
- 2) Sub Data**
- 3) Warehouse**
- 4) Meta Data**
- 5) None of these**

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**Q.23. Relationship of data in one database table with respect to another table is called?**

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**1) Degree**

**2) Row**

**3) Column**

**4) Cardinality**

**5) All of the above**

**The three main cardinal relationships are one-to-one, one-to-many, and many-many.**

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**Q.24. Which of the following commands is used to save any transaction permanently into the database?**

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**1) Commit**

**2) Rollback**

**3) Savepoint**

**4) Undo**

**5) Redo**

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**Q.25. Which one of the following commands is used to restore the database to the last committed state?**

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- 1) Savepoint**
- 2) Rollback**
- 3) Commit**
- 4) Both 1 & 2**
- 5) None of these**

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# Query Language

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# SQL – Structured Query Language

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# SQL



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- ✓ In 1971, IBM researchers created a simple non-procedural language called **Structured English Query Language**. or **SEQUEL**.
- ✓ SQL was based on **Dr. Edgar F. (Ted) Codd's** design of a relational model for data storage where he described a universal programming language for accessing databases.

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# SQL

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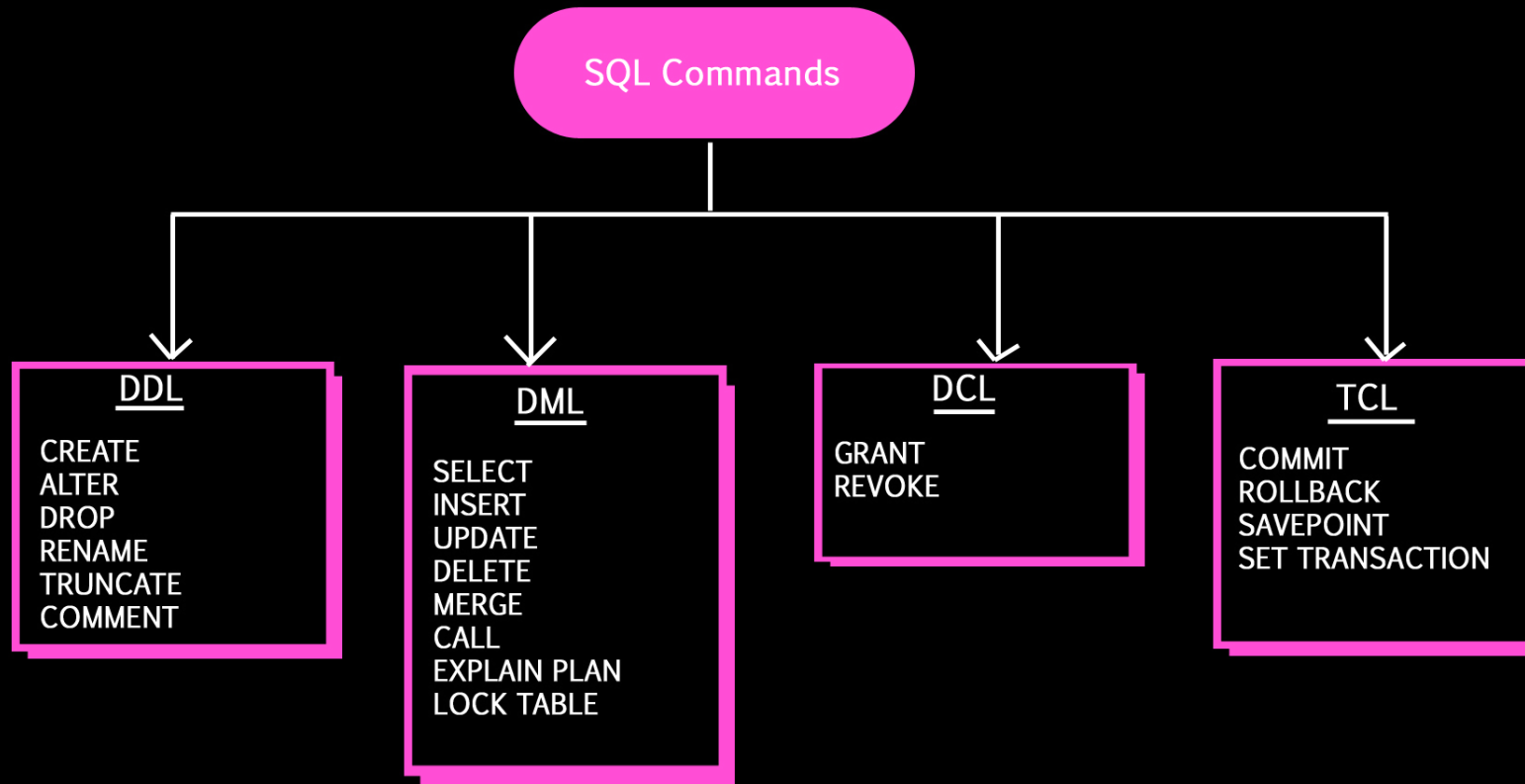


- ✓ **Standard Database Language.**
- ✓ **SQL is used to = create, maintain and retrieve the data from relational databases.**
- ✓ **SQL is used = In case of Structured data means when data is in the form of table.**

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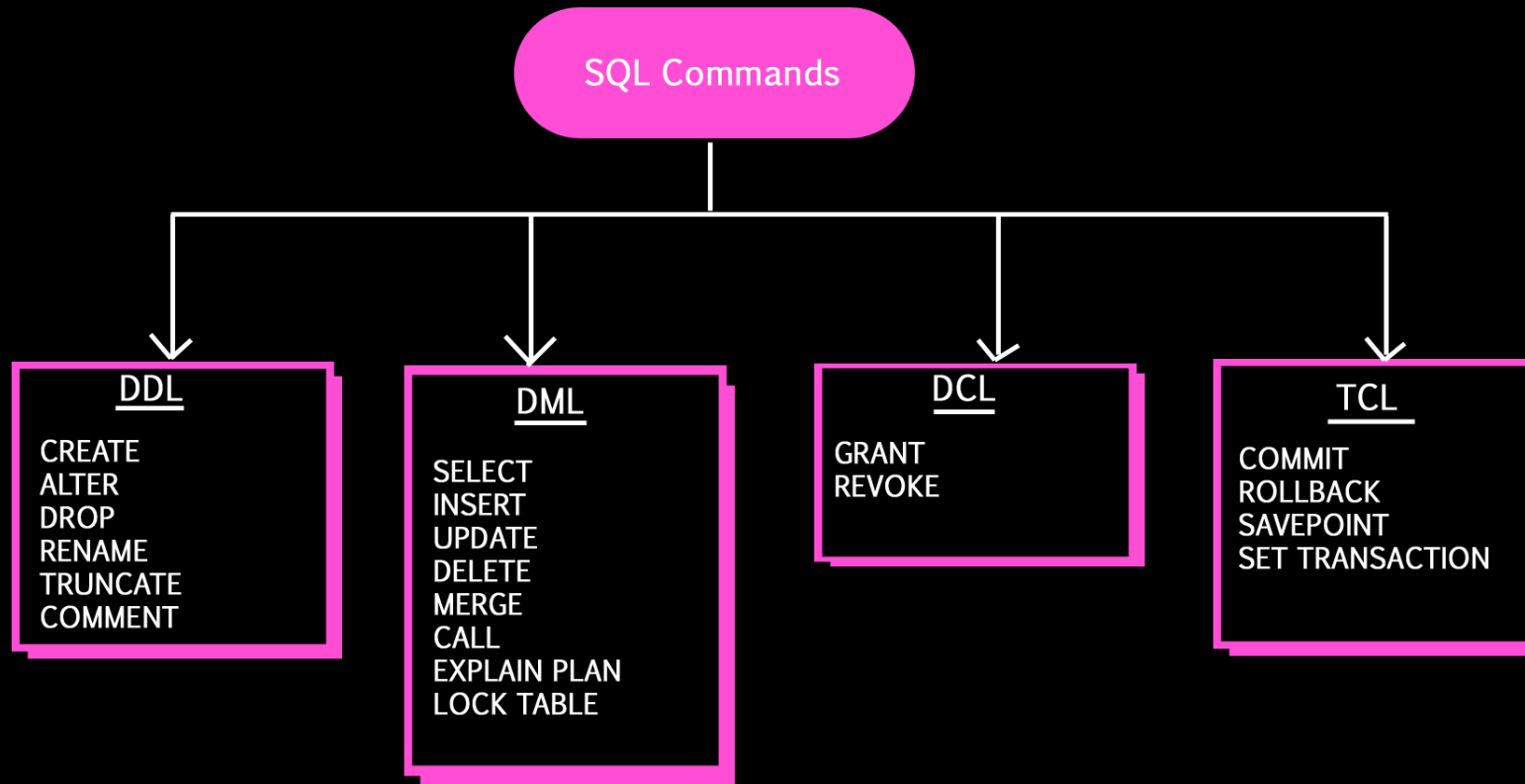


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# **Topic : Database**





# DDL – Data Definition Language

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- ✓ Used to Create = Skeleton/Schema of the database.
- ✓ Store = Metadata
- ✓ TASK = Create, Alter, Drop, Truncate, Rename, Comment

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# DDL

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## Examples of DDL commands:

- **CREATE** – is used to create the database or its objects (like table, index, function, views, store procedure and triggers).
- **DROP** – is used to delete objects from the database.
- **ALTER** – is used to alter the structure of the database.
- **TRUNCATE** – is used to remove all records from a table, including all spaces allocated for the records are removed.
- **COMMENT** – is used to add comments to the data dictionary.
- **RENAME** – is used to rename an object existing in the database.

**Delete** = is used to remove the rows, while **Drop** = is used to remove the tables

**TRUNCATE** = only deletes the data of the tables



- ✓ Used to = Access + Manipulate Data
- ✓ Task = Select, Insert, Update, Merge, Lock Table

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## Examples of DML:

- INSERT – is used to insert data into a table.
- UPDATE – is used to update existing data within a table.
- DELETE – is used to delete records from a database table.

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# DCL – Data Control Language

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- ✓ Used to = Control Access to data stored (Authorization)
- ✓ Task = Grant, Revoke

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### Examples of DCL commands:

- **GRANT**-gives user's access privileges to the database.
- **REVOKE**-withdraw user's access privileges given by using the GRANT command.

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- ✓ Used to = Manage Transaction in database.
- ✓ Task = Commit, Rollback

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# TCL

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## Examples of TCL commands:

- **COMMIT**– commits a Transaction.
- **ROLLBACK**– rollbacks a transaction in case of any error occurs.
- **SAVEPOINT**–sets a savepoint within a transaction.
- **SET TRANSACTION**–specify characteristics for the transaction.

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# DQL – Data Query Language

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Example of DQL:

- SELECT – is used to retrieve data from the database.

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**Q.26. What is the full form of SQL?**

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- 1) Structured Query List**
- 2) Structured Query Language**
- 3) Sample Query Language**
- 4) None of these**
- 5) All of these**

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**Q.27. Which of the following is not a DDL command?**

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- 1) TRUNCATE**
- 2) ALTER**
- 3) CREATE**
- 4) UPDATE**
- 5) All of these**

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**Q.28. Which of the following are TCL commands?**

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**1) COMMIT and ROLLBACK**

**2) UPDATE and TRUNCATE**

**3) SELECT and INSERT**

**4) GRANT and REVOKE**

**5) None of these**

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**Q.29. \_\_\_\_\_ command makes the updates performed by the transaction permanent in the database?**

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**1) ROLLBACK**

**2) COMMIT**

**3) TRUNCATE**

**4) DELETE**

**5) None of these**

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**Q.30. Which of the following keyword is used with Data Control Language (DCL) statements?** **Arora Educator**



1) **SELECT**

2) **INSERT**

3) **DELETE**

4) **GRANT**

5) **All of these**

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**Q.31. A Database Language Concerned With The Definition Of The Whole Database Structure And Schema Is?**

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**1) DCL**

**2) DML**

**3) DDL**

**4) All of these**

**5) None of these**

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**Q.32. The language used application programs to request data from the DBMS is referred to as?**

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**1) DML**

**2) DDL**

**3) Query language**

**4) All of these**

**5) None of these**

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**Q.33. It is the standard language for relational database management systems.**

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- 1) DDL**
- 2) DML**
- 3) DCL**
- 4) DQL**
- 5) SQL**

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**Q.34. According to\_\_\_\_\_ SQL is the standard language for relational database management systems.**

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**1) ISO**

**2) IEC**

**3) ANSI**

**4) IETF**

**5) DARPA**

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**Q.35. SQL was initially developed at ?**

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- 1) DARPA**
- 2) Microsoft**
- 3) Google**
- 4) Oracle**
- 5) IBM**

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## Q.36. Founder of SQL Language?

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- 1) Edgar F. Codd
- 2) Donal Chamberlin
- 3) Raymond Boyce
- 4) 1 & 3
- 5) 2 & 3

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**Q.37. SQL First appeared in which year?**

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**1) 1974**

**2) 1984**

**3) 1994**

**4) 1990**

**5) None of these**

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**Q.38. SQL released in which year?**

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**1) 2016**

**2) 2015**

**3) 2017**

**4) 2014**

**5) 2000**

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**Q.39. Who describe SQL Language?**

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- 1) ISO/IEC 9075 standard**
- 2) ISO/IEC 9090 standard**
- 3) ISO/IEC 1190 standard**
- 4) ISO/IEC 8075 standard**
- 5) None of these**

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# **Topic : Database**



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# Database Keys

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# Database Keys

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1. **Super Key = Many Attributes**
2. **Candidate Key = One Attribute (Part of Super Key)**
3. **Primary key = Unique/Not Null/Not Repeat**
4. **Composite Key = Combination of PK**
5. **Foreign Key = 2 Table**

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# Database Keys

## 1. Super key

- ✓ A super key is a group of single or multiple keys which identifies rows in a table.
- ✓ The super key would be EMPLOYEE-ID, (EMPLOYEE\_ID, EMPLOYEE-NAME), etc.

Super Key 1		Super Key 2	
Roll No.	Name	Mobile No	Age
1	Anoop	9873xxxxx	21
2	Anurag	9874xxxxx	22
3	Ganesh	9560xxxxx	23

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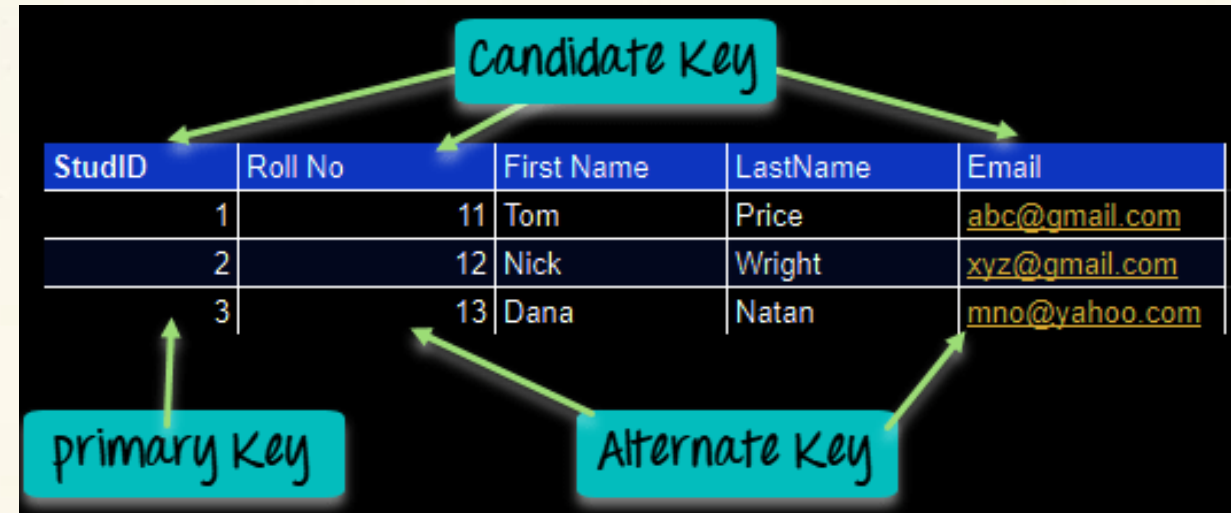
# Database Keys

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## 2. Candidate key

- ✓ Candidate key can be a single column or combination of more than one column.



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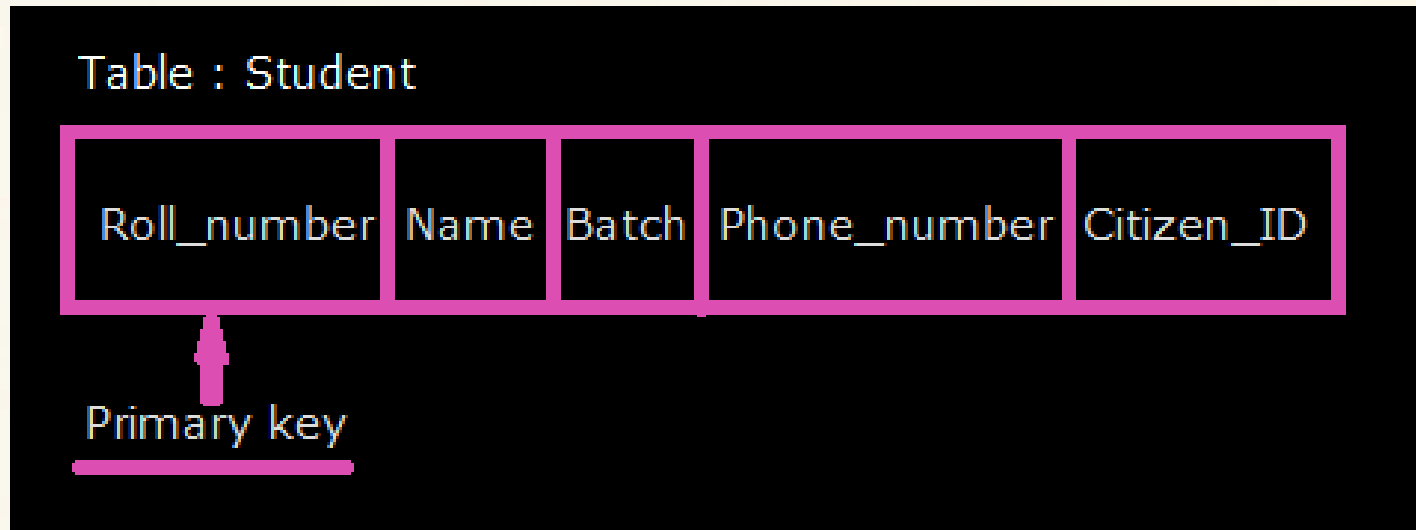
# Database Keys

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## 3. Primary key

- ✓ The Primary Key can't be a duplicate.
- ✓ A table cannot have more than one primary key.
- ✓ The primary key field cannot be null.



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# Database Keys

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## 4. Composite Key

- ✓ When there is no primary key = Join attributes and create a primary key.
- ✓ Or..Collection of primary key.
- ✓ ATM Card + PIN
- ✓ Username + OTP on mobile

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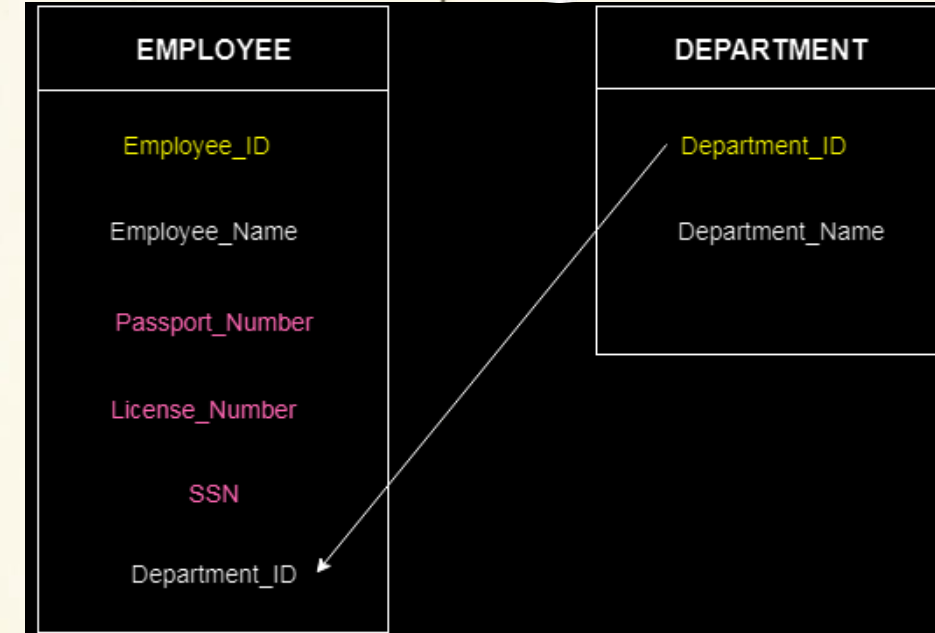
# Database Keys

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## 5. Foreign key

- ✓ Foreign keys are the column of the table which is used to point to the primary key of another table.
- ✓ in the EMPLOYEE table, Department\_Id is the foreign key, and both the tables are related.



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## Q.40. Which statement is wrong about PRIMARY KEY constraint in SQL?

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- 1) The PRIMARY KEY uniquely identifies each record in a SQL database table
- 2) Primary key can be made based on multiple columns
- 3) Primary key must be made of any single columns
- 4) Primary keys must contain UNIQUE values.
- 5) All of these

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**Q.41. Which is/are correct statements about primary key of a table?**

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- 1) Primary keys can contain NULL values
- 2) Primary keys cannot contain NULL values.
- 3) A table can have only one primary key with single or multiple fields
- 4) A table can have multiple primary keys with single or multiple fields

**5) 2&3**

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## Q.42 What is the difference between a PRIMARY KEY and a UNIQUE KEY?

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1) Primary key can store null value, whereas a unique key cannot store null value.

2) We can have only one primary key in a table while we can have multiple unique keys

3) Primary key cannot be a date variable whereas unique key can be

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4) None of these

5) All of these

## Student

Roll_no	Name	Class	Phone_no	Registration_no
1	Andrew	5	9854672256	895
2	Andrew	6	9955512456	564
3	Augusto	5		567

Primary  
Key

Unique  
Key

Unique  
Key

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### Primary Key

Primary Key can't accept null values.

By default, Primary key is clustered index and data in the database table is physically organized in the sequence of clustered index.

We can have only one Primary key in a table.

Primary key can be made foreign key into another table.

### Unique Key

Unique key can accept only one null value.

By default, Unique key is a unique non-clustered index.

We can have more than one unique key in a table.

In SQL Server, Unique key can be made foreign key into another table.

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**Q.43. Which of the following are the synonyms for Column and ROW of a table?**

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- 1) Row = [Tuple, Record]
- 2) Column = [Field, Attribute]
- 3) Row = [Tuple, Attribute]
- 4) Columns = [Field, Record]

**1) 1 and 2**

- 2) 3 and 4
- 3) Only 1
- 4) Only 2

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**Q.44. Which one of the following attribute can be taken as a primary key?**

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- 1) Name
- 2) Street
- 3) Id
- 4) Department
- 5) All of these

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**Q.45. Consider attributes ID , CITY and NAME . Which one of this can be considered as a super key?**

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**1) NAME**

**2) ID**

**3) CITY**

**4) CITY , ID**

**5) All of these**

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**Q.46. This identifies rows in a table?**

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- 1) Candidate key
- 2) Sub key
- 3) Super key
- 4) Foreign key
- 5) All of these

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**Q.47. A attribute in a relation is a foreign key if the \_\_\_\_\_ key from one relation is used as an attribute in that relation . ?**

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- 1) Candidate
- 2) Primary
- 3) Super
- 4) Sub
- 5) All of these

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**Q.48. Which one of the following cannot be taken as a primary key. ?**

**Arora Educator**



- 1) Id
- 2) Register number
- 3) Dept\_id
- 4) Street**
- 5) None of these

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**Q.49. It is the columns of a table that points to the candidate key of another table. ?**

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- 1) Primary Key**
- 2) Super key**
- 3) Candidate Key**
- 4) Foreign key**
- 5) All of these**

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**Q.50. Which of the following describes the primary key \_\_\_\_\_.** ?

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- 1) It must be unique**
- 2) It helps in indexing of a large database**
- 3) It makes sorting quicker**
- 4) All of these**
- 5) None of these**

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**Q.51. Which of the following is NOT a good primary key \_\_\_\_\_?**

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- 1) Social security number
- 2) Order number
- 3) Zip code
- 4) Student ID number
- 5) All of these

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**Q.52. How many primary keys can a table have \_\_\_\_\_?**

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**1) One**

**2) At least one, but not more than two**

**3) Between 1 and 5**

**4) No limit**

**5) None of these**

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# Q.53. The columns of a table correspond to?

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- 1) Table
- 2) Record
- 3) Field
- 4) Cell
- 5) All of these

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**Q.54. The foreign key is found in?**

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- 1) Parent table**
- 2) Dependent table**
- 3) Pivot table**
- 4) Index table**
- 5) All of these**

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**Q.55. A two-dimensional table of data** **Arora Educator**  
is called a \_\_\_\_\_?



**1) Group** **Arora Educator**



**2) Set**

**3) Declaration**

**4) Relation**

**5) All of these**

# Number System

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Numbering System		
System	Base	Digits
Binary	2	0, 1
Octal	8	0,1,2,3,4,5,6,7
Decimal	10	0,1,2,3,4,5,6,7,8,9
Hexadecimal	16	0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F



# #1 = Binary Addition Rule

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A + B	SUM	CARRY
0 + 0	0	0
0 + 1	1	0
1 + 0	1	0
1 + 1	0	1

# Binary Addition Rule

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Binary Addition Rules for Two Numbers

1)	2)	3)	4)	5)	
$\begin{array}{r} 0 \\ + 0 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 1 \\ + 1 \\ \hline \end{array}$	
	OR				
Sum	0	1	1	10	11

All values are expressed in binary.

Three 1's will occur during a carry operation.

# Q.1. Add 1001 and 111

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1001

1001 = 8421 = 9

0111

0111 = 8421 = 7

---

10000

9+7 = 16 = 16 8 4 2 1 = 10000

# Q.2. Add 101 and 011

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101

011

---

1000

# Q.3. adding 11 to 13

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$$11 = 8 \ 4 \ 2 \ 1 = 1 \ 0 \ 1 \ 1$$

$$13 = 8 \ 4 \ 2 \ 1 = 1 \ 1 \ 0 \ 1$$

$$11 + 13 = 24$$

1011

16 8 4 2 1

1101

1 1 0 0 0

---

11000

# #2 = Binary Subtraction Rule

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A - B	Subtract	Borrow
0 - 0	0	0
0 - 1	0	1
1 - 0	1	0
1 - 1	0	0

# Q.1. 1010 – 101

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$$1\ 0\ 1\ 0 = 8\ 4\ 2\ 1 = 10$$

$$1\ 0\ 1 = 8\ 4\ 2\ 1 = 5$$

$$10 - 5 = 5 = 8\ 4\ 2\ 1 = 0\ 1\ 0\ 1$$



## Q.2. 1100 – 0111

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$$1\ 1\ 0\ 0 = 8\ 4\ 2\ 1 = 12$$

$$0\ 1\ 1\ 1 = 8\ 4\ 2\ 1 = 7$$

$$12 - 7 = 5 = 8\ 4\ 2\ 1 = 0\ 1\ 0\ 1$$

# Q.3. 100 – 1

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$$100 = 421 = 4$$

$$1 = 1$$

$$4 - 1 = 3 = 8421 = 0011$$

# #3 = (Binary)<sub>2</sub> → (Decimal)<sub>10</sub>

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**Q.1. Convert the binary number (11110)<sub>2</sub> into a decimal number.**

$$\text{Step.1} = 1 \quad 1 \quad 1 \quad 1 \quad 0$$

$$\text{Step.2} = 2^4 \quad 2^3 \quad 2^2 \quad 2^1 \quad 2^0$$

$$\text{Step.3} = 16 \quad 8 \quad 4 \quad 2 \quad 1$$

$$\begin{aligned} \text{Step.4} &= (\text{Step1} * \text{Step3}) \\ &= 16 \quad 8 \quad 4 \quad 2 \quad 0 \end{aligned}$$

$$\text{Step.5} = 16+8+4+2+0 = (30)_{10}$$



**Q.2. Convert the binary number  $(10111)_2$  into a decimal number.**

$$\text{Step.1} = 1 \quad 0 \quad 1 \quad 1 \quad 1$$

$$\text{Step.2} = 2^4 \quad 2^3 \quad 2^2 \quad 2^1 \quad 2^0$$

$$\text{Step.3} = 16 \quad 8 \quad 4 \quad 2 \quad 1$$

$$\begin{aligned} \text{Step.4} &= (\text{Step1} * \text{Step3}) \\ &= 16 \quad 0 \quad 4 \quad 2 \quad 1 \end{aligned}$$

$$\text{Step.5} = 16+0+4+2+1 = (23)_{10}$$

# #4 = Decimal → Binary

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**Q.1.** Convert the decimal number  $(25)_{10}$  into a binary number.

Conversion =  $(25)_{10} = (?)_2$

Step.1 = 24    23    22    21    20

Step.3 = 16    8    4    2    1

Step.4 = 1    1    0    0    1

Step.5 = **(11001)<sub>2</sub>**

**Q.2. Convert the decimal number  $(14)_{10}$  into a binary number.**

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**Conversion =  $(14)_{10} = (?)_2$**

**Step.1 = 23    22    21    20**

**Step.3 = 8    4    2    1**

**Step.4 = 1    1    1    0**

**Step.5 =  $(1110)_2$**

# #5 = Octal $\rightarrow$ Binary

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**Q.1.** Convert the octal number  $(537)_8$  into a binary number.

Conversion =  $(537)_8 = (?)_2$

Step.1 = 5 = 4 2 1 = 1 0 1

Step.2 = 3 = 4 2 1 = 0 1 1

Step.3 = 7 = 4 2 1 = 1 1 1

Step.4 =  **$(101\ 011\ 111)_2$**





**Q.2. Convert the octal number  $(632)_8$  into a binary number.**

**Conversion =  $(632)_8 = (?)_2$**

**Step.1 = 6 = 4 2 1 = 1 1 0**

**Step.2 = 3 = 4 2 1 = 0 1 1**

**Step.3 = 2 = 4 2 1 = 0 1 0**

**Step.4 =  $(110\ 011\ 010)_2$**

# #6 = Binary → Octal

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**Q.1.** Convert the binary number  $(1010111100)_2$  into a octal number.

Conversion =  $(1\ 010\ 111\ 100)_2 = (?)_8$

Step.1 = 1 = 1

Step.2 = 010 = 2

Step.3 = 111 = 7

Step.4 = 100 = 4

Step.5 =  $(1274)_8$

# #7 = Binary → Hexadecimal

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Binary	Hex	Decimal
0000	0	0
0001	1	1
0010	2	2
0011	3	3
0100	4	4
0101	5	5
0110	6	6
0111	7	7
1000	8	8
1001	9	9
1010	A	10
1011	B	11
1100	C	12
1101	D	13
1110	E	14
1111	F	15

**Q.1. Convert the binary number  $(1010101101001)_2$  into a hexadecimal number.**

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**Conversion = 1 0101 0110 1001**

**Step.1 = 1 = 1**

**Step.2 = 0 1 0 1 = 5**

**Step.3 = 0 1 1 0 = 6**

**Step.4 = 1 0 0 1 = 9**

**Step.5 =  $(1569)_{16}$**

# #8 = Hexadecimal → Binary

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**Q.1.** Convert the Hexadecimal number  $(5AD)_{16}$  into a binary number.

Conversion =  $(5AD)_{16} = (?)_2$

Step.1 = 5 = 0101

Step.2 = A = 10 = 1010

Step.3 = D = 13 = 1101

Step.4 =  $(010110101101)_{16}$

# Programming Language

## Concept & MCQ's

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# Programming Language

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GENERATIONS	LANGUAGES
1 : GENERATION LANGUAGE	MACHINE LANGUAGE (Binary Language)
2 : GENERATION LANGUAGE	ASSEMBLY LANGUAGE (Mnemonics)
3 : GENERATION LANGUAGE	C, C++, JAVA, FORTRON, COBOL, BASIC, PASCAL (Software)
4 : GENERATION LANGUAGE	Perl, Python, Ruby, SQL, MatLab (Database Language)
5 : GENERATION LANGUAGE	Mercury, OPS5, LISP and Prolog (AI/Robots/Machine)

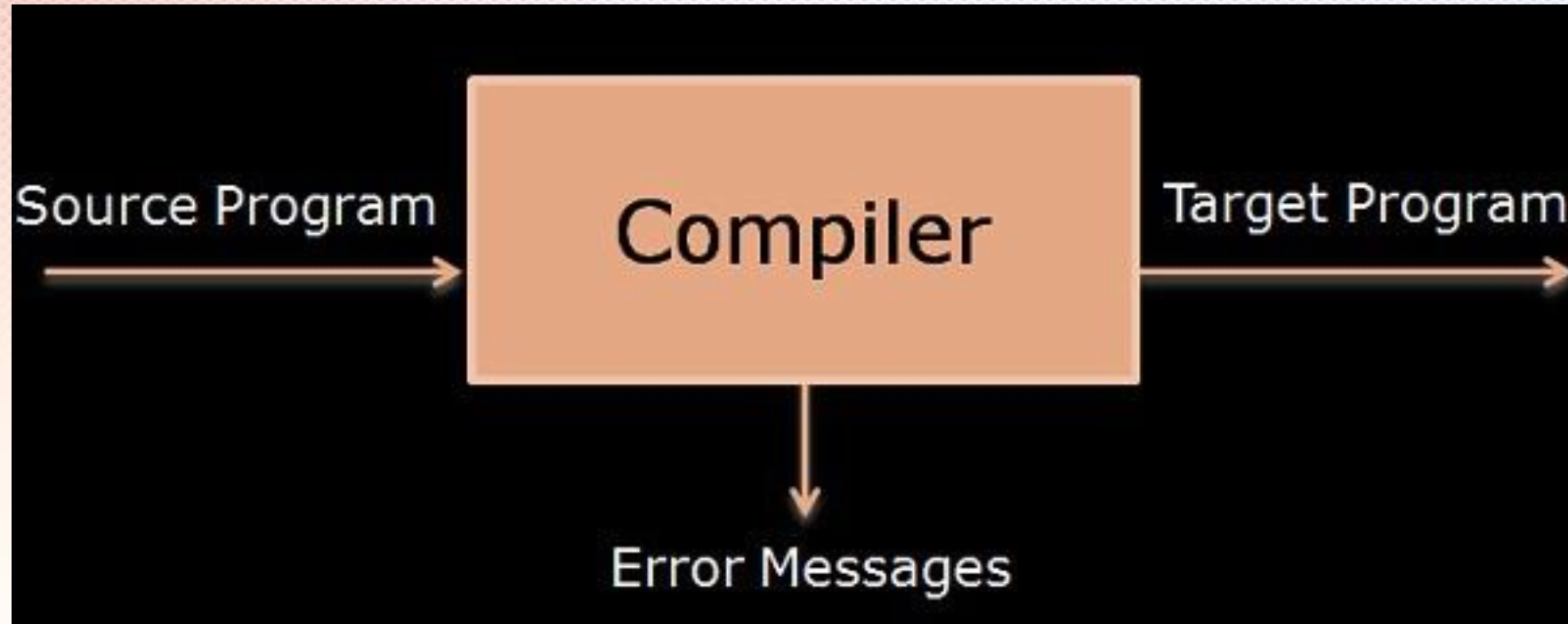
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# Compiler

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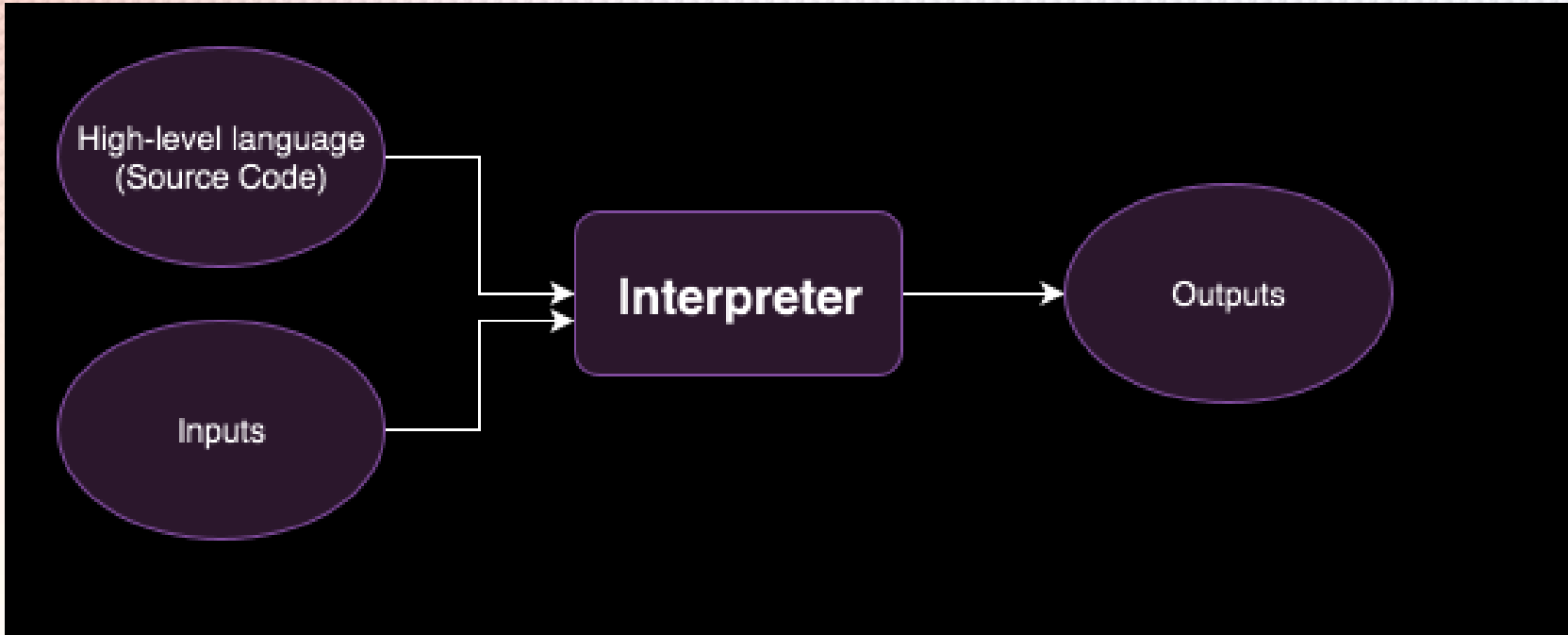


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# Interpreter

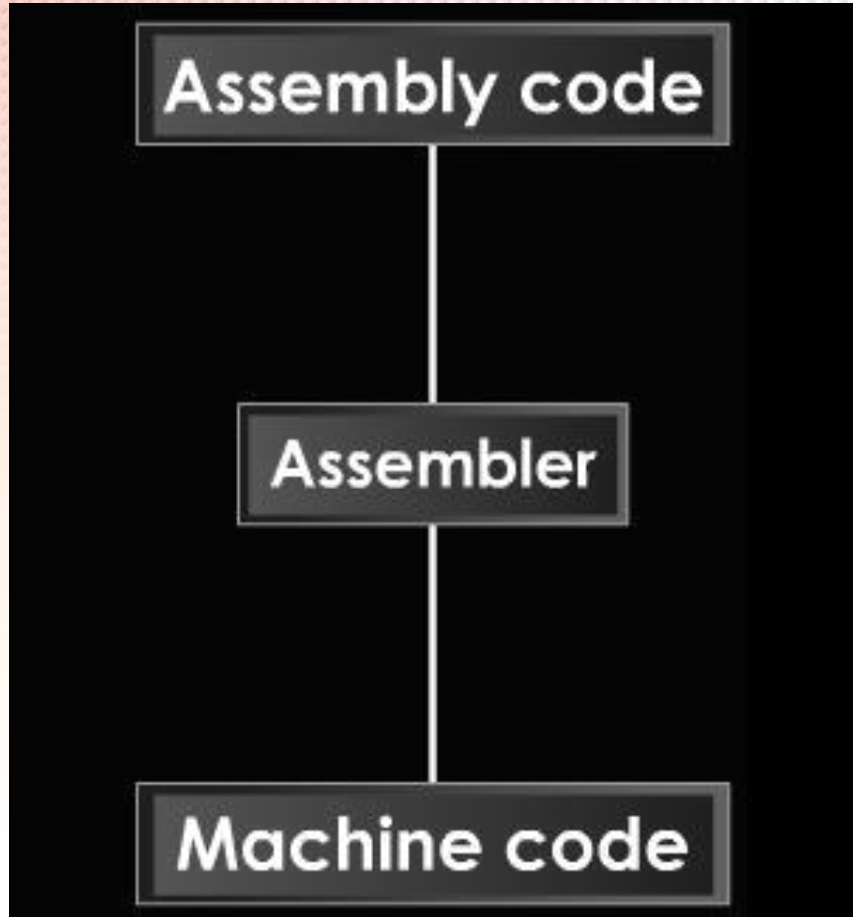
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# Assembler



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**Assembler**- Converts Assembly Language into Machine Language

**Compiler/Interpreter**- Convert HLL Into Machine Language

**Loader**- Responsible to load programs from Hard Disk To RAM

**Linker**-The linker can work with object modules to link them together.

**Compiler** (Object File) → **Linker** (OBJ1+OBJ2+..=Executable File) → **Loader** (Loads Exe File from secondary memory(Hard Disk) to Main Memory(RAM))

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# Difference between Compiler & Interpreter

Compiler	Interpreter
1. Compiler converts a program into machine code as a whole.	1. Interpreter converts a program into machine code one statement at one time.
2. Compiler creates object code file.	2. Interpreter does not create object code file.
3. Program execution is fast. Since once program is compiled successfully, an object code file is produced. Now this object code file is executed. No need of re-compilation unless we change the source code.	3. Program execution is slow. Because every time we want to run a program it is interpreted again.
4. Error detection and removal is comparatively difficult. Because, compiler will show a list of many errors in the whole program.	4. Error detection is instant and correction is relatively simple and easy, since only one line is translated at a time and if any error, then error message is displayed. We can correct one error at a time easily.

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# Programming Language

**Name the First High Level Programming Language ?**

**FORTRAN**

**Name the First Object Oriented Programming Language ?**

**SIMULA - Simulation Language**

**Name the Pure Object Oriented Programming Language ?**

**Smalltalk**

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# Programming Language ?

Facebook Frontend Language ?

**PHP**

Facebook Chatting Language

**Erlang**

Facebook Backend Language

**Python**

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# Programming Language ?

Founder of FORTRAN?

**John Backus**

Compiler generates as output ?

**Object Code**

Internet Based Language ?

**JAVA**

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**Programming Language ?**

**Business Language ?**

**COBOL**

**Scientific Language ?**

**FORTRAN**

**Animation Based Language ?**

**JAVA SCRIPT**

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# Programming Language ?

Mnemonics used in ?

**Assembly Language**

**Write Once Run Any Where Languages?**

**JAVA**

**Object Oriented & Functional Language ?**

**Scala**

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# Programming Language ?

Language based on Pascal ?

**ADA**

Microsoft Object Oriented Language ?

**VISUAL BASIC**

Programming Language used in Embedded  
& Realtime Sytem?

**ADA**

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# Programming Language

## Concept & MCQ's

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**Q.1. A normal compiler takes source code as input and produce \_\_\_\_\_ as output?**

- 1. Assembly code**
- 2. Object Code**
- 3. Machine Code**
- 4. All of these**
- 5. None of these**

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**Correct Ans = Object Code & Machine Code  
(Here in this Q'n Assembly code is treated  
as Low level code ) – So Ans = Option 4**

**Ans.**

**4**

**Q.2. Which language can be directly understood by the CPU??**

- 1. Assembly Language**
- 2. Java**
- 3. C**
- 4. C++**
- 5. None of these**

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**Ans.**

**1**



## Q.3. Problem oriented language is?

1. BASIC
2. PL/1
3. Both 1 & 2
4. C++
5. None of these

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**Ans.**

**3**

**Q.4. The language which is CPU dependent is?**

- 1. C**
- 2. Assembly**
- 3. Java**
- 4. C++**
- 5. All except Java**

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**Ans.**

**5**

**Q.5. Which computer language is used on internet??**

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- 1. Basic**
- 2. LOGO**
- 3. PASCAL**
- 4. JAVA**
- 5. None of these**

**Ans.**

**4**

**Q.6. The program which is computed by all computers is??**

- 1. Source language program**
- 2. Machine language program**
- 3. COBOL programs**
- 4. BASIC programs**
- 5. None of these**

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**Ans.**

**2**

**Q.7. \_\_\_\_\_ language is widely used  
for development of various games??**

- 1. C++**
- 2. FORTRAN**
- 3. BASIC**
- 4. LISP**
- 5. Python**

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**Ans.**

**1**

**Q.8. What type of languages can easily interact with the hardware?**

- 1. Very high level languages**
- 2. Middle level languages**
- 3. High level languages**
- 4. Low level languages**
- 5. All of these**

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**Ans.**

**4**

**Q.9. Which program is used for business applications??**

- 1. FORTRAN**
- 2. COBOL**
- 3. BASIC**
- 4. C++**
- 5. All of these**

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**Ans.**

**2**



**q.10. For scientific calculations which language is used???**

- 1. SQL**
- 2. Java**
- 3. C++**
- 4. FORTRAN**
- 5. All of these**

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**Ans.**

**4**

**Q.11. Which language is the set of rules that tells the computer what operation to perform?**

- 1. Programming language**
- 2. Command language**
- 3. Procedural language**
- 4. Structures**
- 5. All of these**

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**Ans.**

**1**

**Q.12. The language which is understood by the computer is?**

- 1. Machine language**
- 2. Low level language**
- 3. High level language**
- 4. All of the above**
- 5. None of these**

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**Ans.**

**1**

**Q.13. Program which is written originally by programmer is classified as?**

- 1. Object code**
- 2. Source program**
- 3. Machine code**
- 4. Interactive programs**
- 5. None of these**

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**Ans.**

**2**

**Q.14. A program which translates high level program into machine code is classified as?**

- 1. Compiler**
- 2. Assembler**
- 3. Instruction analyst**
- 4. Translating analyst**
- 5. None of these**

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**Ans.**

**1**

**Q.15. A name which has some special meaning and significance for programmer is called?**

- 1. Files**
- 2. Data array**
- 3. Reserved words**
- 4. Translating analyst**
- 5. Changing words**

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**Ans.**

**3**

# Programming Language Founders

- ✓ **Founder of BASIC : John G. Kemeny, Thomas E. Kurtz**
- ✓ **Founder of FORTRAN : John Backus**
- ✓ **Founder of AI : John McCarthy**
- ✓ **Founder of B : Ken Thompson**
- ✓ **Founder of C : Dennis Ritchie**
- ✓ **Founder of C++ : Bjarne Stroustrup**
- ✓ **Founder of C# : Microsoft Corporation**
- ✓ **Founder of JAVA : James Gosling = Sun Microsystems = Oracle**
- ✓ **Founder of Python : Guido van Rossum**

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# Programming Language Founders

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- ✓ **Founder of HTML : Tim Berners-Lee**
- ✓ **Founder of Java Script : Brendan Eich**
- ✓ **Founder of Ruby : Yukihiro Matsumoto**
- ✓ **Founder of Assembly Language : David J. Wheeler**
- ✓ **Founder of SQL : Donald D. Chamberlin and Raymond F. Boyce**
- ✓ **Founder of OOPS : Alan Kay**
- ✓ **Founder of Erlang : Joe Armstrong**
- ✓ **Founder of PHP : Rasmus Lerdorf**
- ✓ **Founder of Go : Rob Pike, and Ken Thompson**
- ✓ **Hack Language Developed by : Facebook**

# Programming Language Founders

- ✓ **Founder of LISP (List Processing) : John McCarthy**
- ✓ **Founder of Prolog (Programming in Logic) : Alain Colmerauer**
- ✓ **Founder of Machine Learning : Arthur Samuel**
- ✓ **Founder of SWIFT : Chris Lattner & Apple**
- ✓ **Founder of Angular JS : Miško Hevery**
- ✓ **Xamarin Founder : Microsoft**

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# Computer Generations

## Concept & MCQ's

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# Computer Generations = Year

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- 1) 1<sup>st</sup> Gen = 1940 - 1956
- 2) 2<sup>nd</sup> Gen = 1957 - 1963
- 3) 3<sup>rd</sup> Gen = 1964 - 1971
- 4) 4<sup>th</sup> Gen = 1972 - 1979
- 5) 5<sup>th</sup> Gen = 1980 - Till date

# Computer Generations = Technology

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- 1) = Vacuum Tubes**
- 2) = Transistor**
- 3) = Integrated Circuit**
- 4) = VLSI/Microprocessor**
- 5) = ULSI/AI, Robots, KBS**

- 1) VLSI = Very large-scale Integration**
- 2) ULSI = Ultra Large Scale Integration**
- 3) KBS = Knowledge Based System**

# Computer Generations = Memory



Generations	Primary Memory	Secondary Memory
1	Magnetic Core	Magnetic Drum, Magnetic Tape
2	Magnetic Core	Magnetic Drum, Magnetic Tape
3	Semiconductor Memory	Magnetic Tape, Magnetic Disk
4	Semiconductor Memory	Magnetic Tape, Magnetic Disk, Optical Disk, Flash Memory
5	Semiconductor Memory	SSD (Solid state drives)

**Magnetic Disk = Floppy Disk, Hard Disk**

**Optical Disk = CD, DVD, HVD**

**Flash Memory = Pen drive, Memory Card , SSD**



# Computer Generations = Computer

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First	Second	Third	Fourth	Fifth
Mark-1	IBM 1620	IBM - 360	APPLE 2	INTEL P4
ENIAC	IBM 7094	PDP	STAR 1000	AMD ATHLON
UNIVAC	CDC 1604	IBM-370	CRAY-X-MP	I3-I11
EDSAC	CDC 3600	ICL 2900		DESKTOP
EDVAC	IBM 1400			LAPTOP
IBM 650				TABLET
IBM 701				SMARTPHONES

**ENIAC = Electronic Numerical Integrator and Computer**

**EDVAC = Electronic Discrete Variable Automatic Computer**

**UNIVAC = Universal Automatic Computer**

**PDP = Programmed Data Processor**



# Computer Generations = Programming Arora Educator



**1 = Low Level Language = Machine / Binary Language**

**2 = Low Level Language = Assembly Language**

**3 = High Level Language = C, C++, Java, Visual Basic, and JavaScript**

**4 = Database & Scripting = Perl, Python, Ruby, SQL, MatLab (Matrix Laboratory)**

**5 = Mercury, OPS5, Prolog & LISP**

**Prolog = Programming in Logic**

**LISP = LISt Processing**

# Computer Generations = Speed

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**1) = Millisecond**

**2) = Micro second**

**3) = Nanosecond**

**4) = Pico second**

**5) = Femto second**

# Computer Generations = Input/Output

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- 1) [Input = Punched card] [Output = Printer]
- 2) [Input = Punched card] [Output = Printer]
- 3) [Input = Keyboard] [Output = Monitor]
- 4) [Input = Mouse, Touch Screen, Scanner] [Output = LCD/LED/Color Printer]
- 5) [Input/Output = Knowledge based Information Processing System (KIPS)]

# Computer Generations = Other

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- 1) = Batch Processing is used**
- 2) = NA**
- 3) = Operating System were developed**
- 4) = Time sharing, Real time, Networks, Distributed Operating System, Microprocessor**
- 5) = Quantum Concept, CD ROM, WWW, ULSI, E-Commerce**

# Q.1. The generation based on VLSI microprocessor.?

- 1) 1st
- 2) 2nd
- 3) 3rd
- 4) 4th

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**Q.2. \_\_\_\_\_ generation of computer started with using vacuum tubes as the basic components.?**

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**1) 1st**

**2) 2nd**

**3) 3rd**

**4) 4th**



**Q.3. Batch processing was mainly used in this generation.?**

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**1) 1st**

**2) 2nd**

**3) 3rd**

**4) 4th**





**Q.4. In this generation Time sharing, Real time,  
Networks, Distributed Operating System was used.?**

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**1) 1st**

**2) 2nd**

**3) 3rd**

**4) 4th**



**Q.5. The period of \_\_\_\_\_ generation was 1957 - 1963.?**

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**1) 1st**

**2) 2nd**

**3) 3rd**

**4) 4th**

**Q.6. In which generation of computer microprocessors was introduced.?**

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- 1) 1st**
- 2) 2nd**
- 3) 3rd**
- 4) 4th**

**Q.7. The major talking point of fifth generation computers are.?**

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**1) VLSI**

**2) Artificial Intelligence**

**3) Batch processing**

**4) System knowledge**

**Q.8. Which of the following terms define the technological advancement in the field of computers through the ages.?**

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- 1) Growth**
- 2) Gradation**
- 3) Generation**
- 4) Development**



**Q.9. A typical modern computer uses.?**

- 1) Magnetic cores for secondary storage**
- 2) LSI chips**
- 3) Magnetic tape for primary memory**
- 4) More than 10,000 vacuum tubes**

**Q.10. The processing speed of first generation computers was.?**

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- 1) milliseconds**
- 2) microseconds**
- 3) nanoseconds**
- 4) picoseconds**



**Q.11. In latest generation computers, the instructions are executed.?**

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- 1) Parallel only**
- 2) Sequentially only**
- 3) Both sequentially and parallel**
- 4) All of above**

**Q.12. Fifth generation computer is also known as.?**

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**1) Knowledge information processing system**

**2) Very large scale integration**

**3) ULSI**

**4) None of above**



# Q.13. Name the first Microprocessor.?

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1) Intel 5005

2) Intel 4004

3) Intel 9009

4) Intel 7007



**Q.14. Who invented Integrated Circuits.?**

- 1) Jack Kilby**
- 2) Robert Noyce**
- 3) Both of these**
- 4) None of these**

# Q.15. Integrated Circuits are generally made of.?

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- 1) Copper
- 2) Silicon
- 3) Germanium
- 4) All of these



**Q.16. Which one is the first computer to use keep Program Concept.?**

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**1) UNIVAC**

**2) EDSAC**

**3) ENIAC**

**4) None of the above**

**Electronic Delay Storage Automatic Calculator**

**Q.17. Select the name of generation in which the Operating system is used the first time.?** **Arora Educator**



- 1) First Generation
- 2) Third Generation
- 3) Second Generation
- 4) Fourth Generation



**Q.18. Select the name of generation that used CD ROM for the first time.?**

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- 1) First Generation**
- 2) Third Generation**
- 3) Second Generation**
- 4) Fifth Generation**

**Q.19. Which of the following is NOT associated with fifth generation of computers.?**

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**1) ULSI**

**2) CUI system**

**3) Electronic-commerce**

**4) WWW**

**Q.20. Apple computers were first developed in the 1970s. Who invented the first Apple computer.?**

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- 1) Bill Gates**
- 2) John von Neumann**
- 3) Steve Wozniak**
- 4) Larry Page**



**Q.21. Which of the following statements is CORRECT.?**

- 1) Tablet computer is a kind of microcomputer.**
- 2) Minicomputers are a class of multi-user computers.**
- 3) Mainframe computer's speed is measured in MIPS  
(Millions of Instructions per Second)**
- 4) All of these**

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**Q.22. Which generation of computer used Power-Book and Pentium microprocessor for the first time.?**

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- 1) First Generation
- 2) Third Generation
- 3) Fifth Generation
- 4) Sixth Generation

**Q.23. How many vacuum tubes used in first generation computer ENIAC .?**

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**1) 1800**

**2) 18000**

**3) 1024**

**4) 512**

**Q.24. What is used in first generation for storage.?**

**1) Magnetic Drum**

**2) IC**

**3) Vacuum Tubes**

**4) Floppy Disk**

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**Q.25. Microprocessors as switching devices are for which generation computers.?**

- 1) First Generation**
- 2) Second Generation**
- 3) Third Generation**
- 4) Fourth Generation**



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**Q.26. During the second generation, the size of computers was decreased by replacing vacuum tubes with.?**

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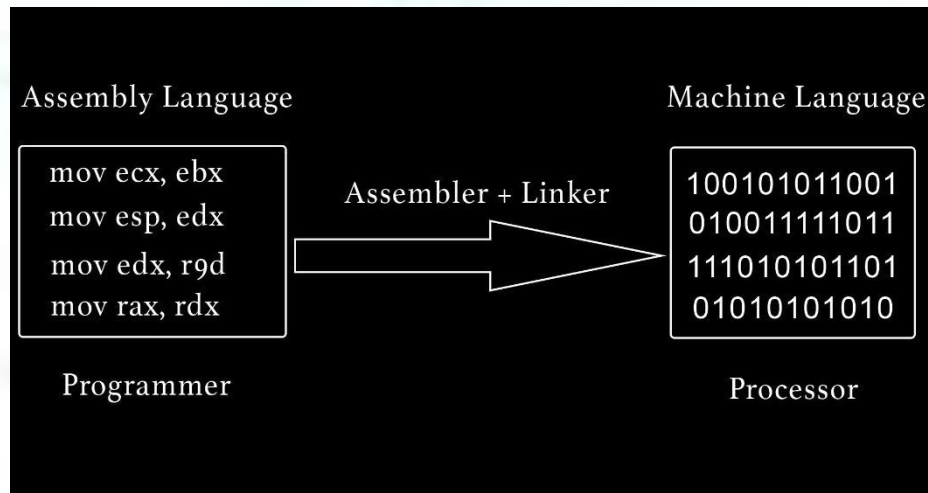
- 1) ICs**
- 2) Semiconductors**
- 3) Transistors**
- 4) Microprocessor**

**Q.27. Which language was used by the second generation of computers.?**

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- 1) Assembly language**
- 2) Machine language**
- 3) Low-level language**
- 4) High-level language**



**Q.28. Which Electronic components are used in Fifth Generation Computers.?**

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- 1) Transistors**
- 2) Integrated Circuits**
- 3) Vacuum Tubes**
- 4) ULSI Microprocessor**

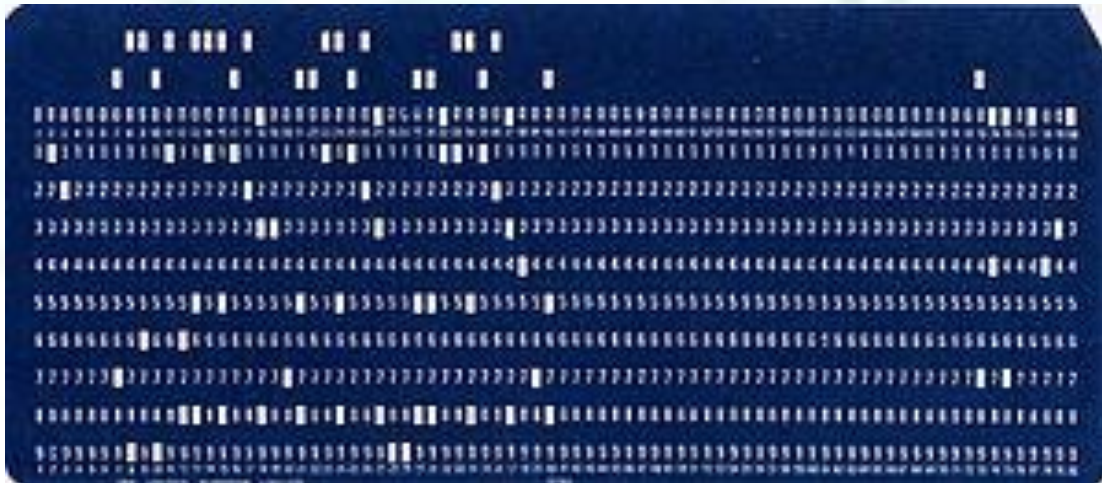
**Ultra Large Scale Integration**



**Q.29. Who invented the punch card .?**

- 1) Charles Babbage**
- 2) Jack Kilby**
- 3) Herman Hollerith**
- 4) John Von Neumann**

**They were a widely-used means of inputting data into early computers.**





**Q.30. Third Generation computer year is.? Arora Educator**



**1) 1940 - 1956**

**2) 1957 - 1963**

**3) 1964 - 1971**

**4) 1972 - 1979**

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# Computer Fundamentals & Hardware

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- 1) **First Electronic Computer = ENIAC**
- 2) **First Automatic Electronic Computer = ABC**
- 3) **First Computer Designed by Charles Babbage = Analytical Engine**
- 4) **First Indian Computer = TIFRAC**
- 5) **First computer to use Stored Program Concept = EDSAC**
- 6) **Which was the first commercial computer = UNIVAC**



- 1) **ENIAC = Electronic Numerical Integrator and Computer**
- 2) **ABC = Atanasoff–Berry computer**
- 3) **TIFRAC = Tata Institute of Fundamental Research Automatic Calculator**
- 4) **EDSAC = Electronic delay storage automatic calculator**
- 5) **UNIVAC = Universal Automatic Computer**



**ABACUS** = Set of beads = Represent unit of data =  
Developed in China

**Computer Derived from** = Latin Language

**Computer System** = Hardware + Software +  
Peripheral

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**Work Station** = Single user Computer + Good  
Processing Power

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**Digital Watch** = Embedded Computer





**ASCII** = 7 BIT CODE (American Standard Code for Information Interchange)

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**EASCII** = 8 BIT CODE (Extended ASCII)



**BCD** = 4 BIT (binary-coded decimal)

**EBCDIC** = 8 BIT (Extended binary-coded decimal interchange code)

**UNICODE** = 16 BIT (Unique Universal and Uniform Character Encoding)

**UNICODE 2.0** = 21 BIT

**CPU** = CU, ALU, MU = Timing & Control signal in CPU-CU

**Writing data on a CD** = Burning

**Scanner have** = ADF = to feed pages = Automatic Document Feeder

**Printer (Fuser Assembly)** = Laser Printer

**Types of Mouse** = Optical, Mechanical

**Arrow Keys** = 4

**Mouse** = Track Ball

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**Input device = Touch Screen + Scanner**

**Point & Draw device = Mouse**

**Flash is based on = ROM**

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**Smallest Computer = Notebook**

**Firewire Port = Used to connect 2 computers to transmit files**

**Microsoft Free Cloud Storage = One Drive**

**Amazon Web Service = Cloud Platform = IaaS/PaaS Solution**

**IaaS = Infrastructure as a Service**

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**PAAS = Platform as a Service**



**SAAS = Software as a service**

**Product of Adobe = Photoshop, InDesign, Illustrator**

**Adobe Not product = Blender**



**GIGO = Accuracy**

**Logic Gate = Type of Circuit**

**Captcha = Completely Automated Public Turing test to tell Computers and Humans Apart**

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## **Founder =**

**1-C Founder = Dennis Ritchie**

**2-WWW= Tim Berners Lee**

**3-E-mail = Ray Tomlinson**

**4-Internet = Vinton Cerf**

**5-CD ROM Founder = James Russell**

**6-USB Inventor = Ajay Bhatt**

**7-Father of Computer Science = Alan Turing**

**8-Punch Card = Herman Hollerith, Semyon Korsakov**

**9-Microsoft = Bill Gates & Paul Allen**

**10-Windows Software = IBM**

**11-ENIAC Founder = P.Eckert & John Mauchly**

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# LECTURE : **HARDWARE**



**HARDWARE**

+

**SOFTWARE**

=

**COMPUTER**

## IPOS CHART



### INPUT

MOUSE  
KEYBOARD  
OCR  
BCR  
OMR  
MICR  
STYLUS  
SCANNER  
JOYSTICK  
WEBCAM  
LIGHTPEN  
TRACKBALL  
TOUCHPAD  
BIOMETRICS  
MICROPHONE  
TOUCHSCREEN  
QR CODE

### PROCESS

MICRO PROCESSOR  
RAM/ROM  
MOTHERBOARD

### OUTPUT

MONITOR  
PRINTER  
SPEAKER  
PLOTTER  
PROJECTOR

### STORAGE

FLOPPY DISK  
HARD DISK  
OPTICAL DISC  
(CD, DVD, BLU-RAY)  
PEN DRIVE  
ZIP DRIVE  
TAPE DRIVE  
MEMORY CARD



# LECTURE : **INPUT DEVICES**





### MOUSE

- Computer device similar to mouse is → **Trackball**
- Computer mouse is also known as → **Pointing Device**
- Mouse was invented by **Dr. Douglas Engelbart** in **1964**
- Mouse has 3 buttons : **Right Click, Left Click & Scroll Button**



## MOUSE

- Optical mouse uses : **light-emitting diode**
- Mechanical mouse uses : **metal / rubber ball on its under side**
- The device which is used to position the screen cursor is :  
**Mouse**



## Types of Pointing Devices

Mouse

Joystick

Touchpad.

Light Pen



# LECTURE : **HARDWARE**



# LECTURE : INPUT DEVICES



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## Types of Pointing Devices

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Joystick

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Light Pen



### KEYBOARD

- F2 Key is used to : **Rename** file or folder
- Shortcut Key for Refresh is : **F5**
- Which key on keyboard can be used to view slide show : **F5**
- What type of keys are 'ctrl' and 'shift' : **Modifier Keys**
- Caps Lock key referred to as : **Toggle Keys**
- Which key is used to delete programs or files permanently:  
**Shift + Del**
- We can detect spelling and grammar error by : **F7**
- Shortcut Key for insert hyperlink in document is: **Ctrl + K**



## KEYBOARD

- Forward slash represented by which symbol : /
- Forward slash used to describe : **URL Address**
- Founder of Keyboard : **Christopher Latham Sholes**
- QWERTY Keyboard was designed to : **avoid jamming the keys**
- French Version of QWERTY Keyboard is : **AZERTY**
- Which Keyboard is used for speed typing: **Dvorak keyboard**
- How many function keys are there in a Keyboard : **12/13**
- Application which provides a visual keyboard on your display screen & used in place of a physical keyboard :  
**On Screen Keyboard**



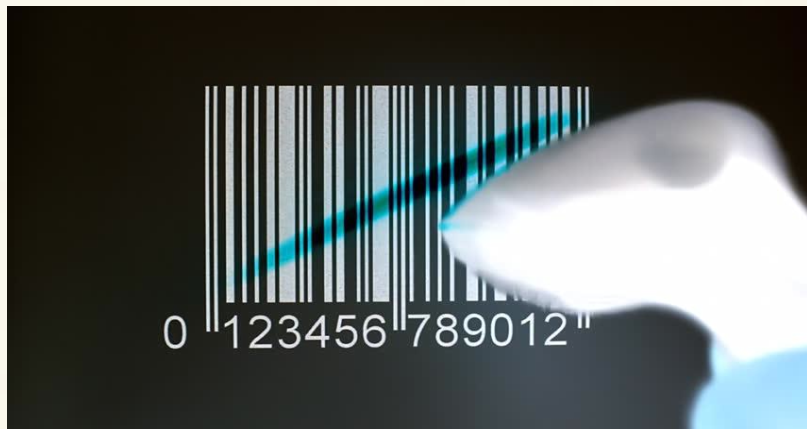
## OCR : Optical character recognition

- OCR convert **scan images into computer readable format.**
- OCR technology is a software that **scans documents** containing texts and **converts them into documents that can be edited.**
- Also known as **optical character reader.**
- **Example** : Converting image(JPG) into editable format (TXT or DOC).



### BCR :Barcode Reader

- A barcode is a set of **lines of different widths and sizes** representing data.
- A BCR/Scanner, also known as a **POS (point of sale) scanner** is a hardware input device capable of reading a barcode using a **laser**.





## OMR : Optical Mark Recognition

- It is the process of capturing human-marked data from document forms such as **surveys and tests**.
- They are used to read **questionnaires, multiple choice examination paper** in the form of lines or shaded areas.



Fig: OMR Machine





## MICR :Magnetic Ink Character Recognition

- MICR technology is used by banks.
- MICR machine translates the magnetic information into characters.

भारतीय स्टेट बैंक  
State Bank Of India

(33867) MAHAVIR NAGAR (BHO PAL)  
E-3113 ARERA COLONY BHO PAL  
BHO PAL, BHO PAL, MADHYA PRADESH 482016  
Tel : 755 2422492 Fax : IF S Code : SBIN0033867 SWIFT :

Date of issue  
D D M M Y Y Y

Payee Name  
Amount in words  
Amount in figures  
Signature

30939  
VALID UPTO ₹ 10 LACS AT NON-HOME BRANCH

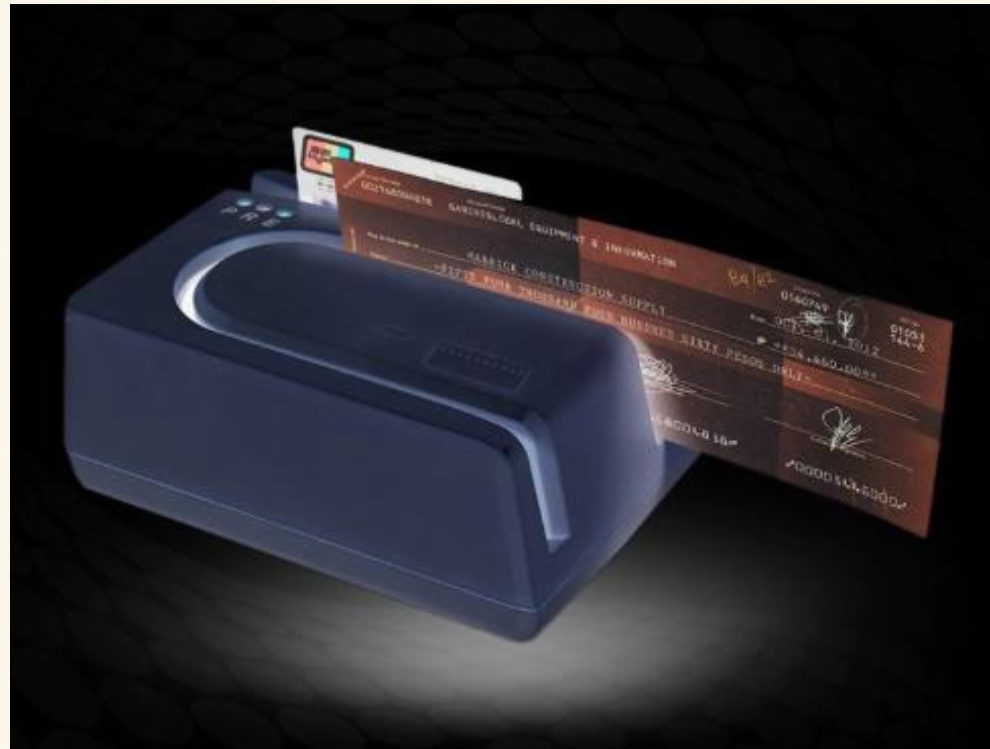
SB ACCOUNT  
PREFIX :  
1515600027

Mr. SIDDHANT J

ULTI-CITY CHEQUE Payable at Par at All Branches of SBI

1102198511 4620020151 0169581 31

Cheque Number (6 Digit) MICR Code (9 Digit) Account ID with RBI Transaction Code







## MICR :Magnetic Ink Character Recognition

- MICR is a 9-digit code.
  - MICR comprises of 3 parts→
  - First 3 digits represent : City Code
  - Next 3 digits represent : Bank Code
  - Last 3 digits represent : Branch Code
- 
- The MICR code is located on the bottom of a cheque leaf, next to the cheque number.

भारतीय स्टेट बैंक  
State Bank Of India

(33667) MAHAVIR NAGAR (BHO PAL)  
E-3 TT3 APERA COLONY BHO PAL  
BHO PAL, BHO PAL, MADHYA PRADESH 462016  
Tel : 755 2422492 Fax : IFSC Code : SBIN0003367 SWIFT :

Date of issue  
D O M M Y Y Y

Payee Name  
IFSC Code

RUPEES Amount in words  
अवका करे ₹ Amount in figures

30939 VALID UPTO ₹ 10 LACS AT NON-HOME BRANCH

SB ACCOUNT  
PREFIX :  
1515600027

Signature  
Mr. SIDDHANT J

MULTI-CITY CHEQUE Payable at Par at All Branches of SBI

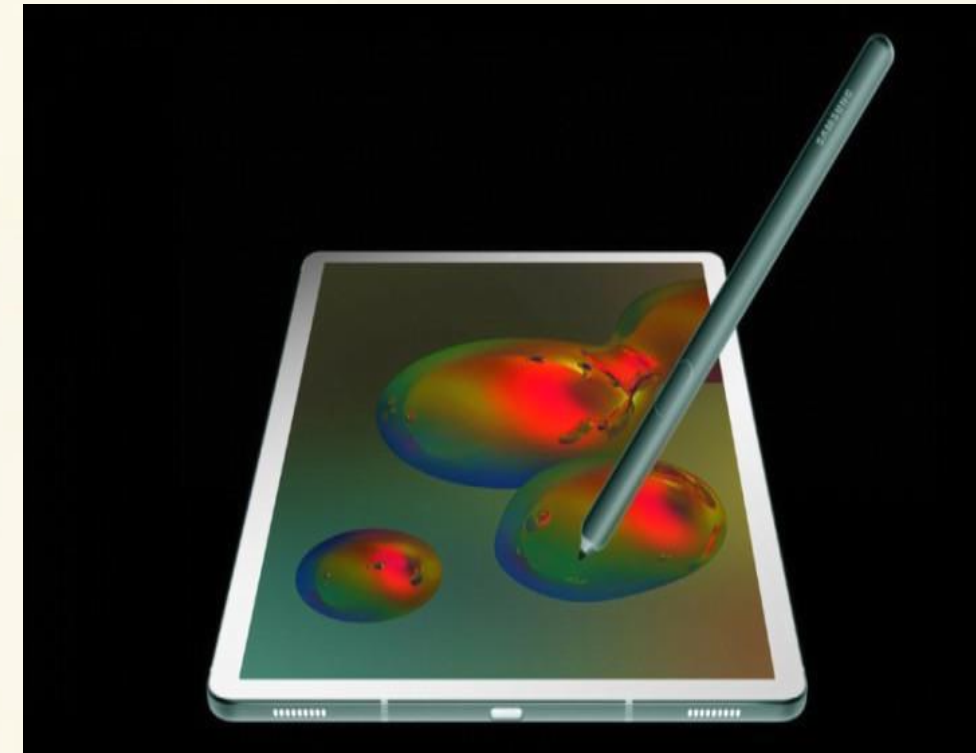
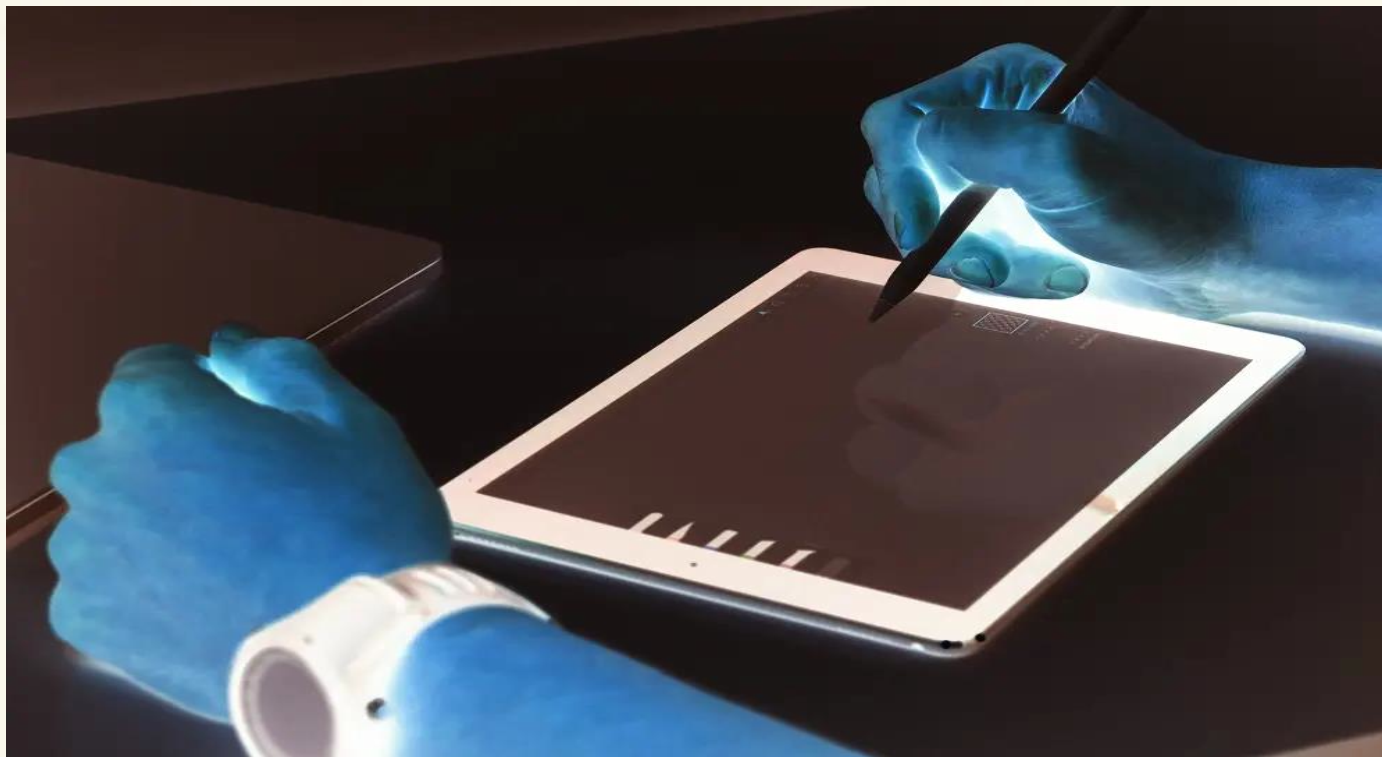
021985 4620020151 016958 31

Cheque Number (6 Digit) MICR Code (9 Digit) Account ID with RBI Transaction Code



### STYLUS

- Stylus is a small pen-shaped instrument.
- A stylus is used by placing it on the touchscreen surface.
- It is used to navigate on a phone or tablet.





### SCANNER

- Scanner is a device that converts Hard Copy into Soft Copy.
- Speed of scanner is measured in ?

**PPM - Pages Per Minute**

- Types of scanner ?

**4 Types**





### Types of Scanner

- Flatbed Scanner
- Sheet-fed Scanner
- Handheld Scanner
- Drum Scanner



## Flatbed Scanner

- **Scan anything** that can be placed against the glass.
- **Optical Scanner**
- **Document has to be placed on the glass bed**





### Sheet-fed Scanner

- Sheet-fed scanners = Can't scan books.
- Scan = Unattached pieces of paper
- Also called = ADF scanner
- ADF = Automatic document feeder







### Handheld Scanner

- Scanner that is = moved by hand
- Main part = Detector array
- Also Called = Bar Code Scanner







### Drum Scanner

- Technology used = Photomultiplier tube (PMT)
- Turn = Photos into posters and wall-sized images
- High Resolution Scanner



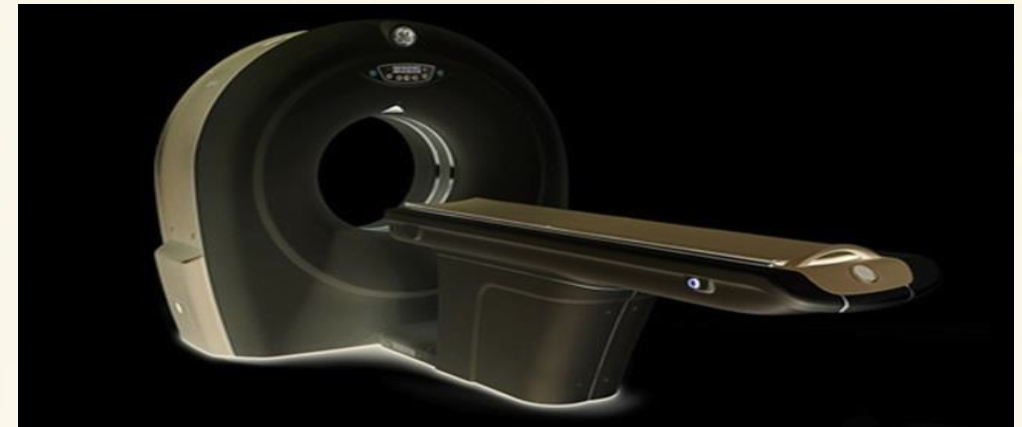


### Other Scanner

➤ MRI → Magnetic Resonance Imaging.



➤ CT Scan / CAT Scan → Computed Tomography Scan/ Computerized Axial Tomography.





## JOY STICK

- Most joysticks include **two buttons** called **triggers**.
- Joysticks are used mostly for **computer games**.
- Joystick used occasionally for **CAD/CAM systems**.





## WEB CAM

- A webcam is an **input device** that captures digital images.
- CCTV Stands for = Closed-Circuit TeleVision





### Digital Camera

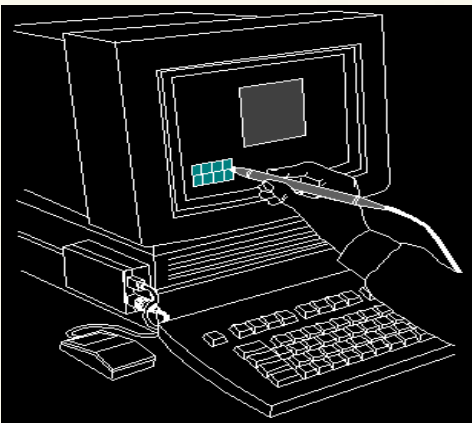
**A digital camera may be considered both an input and output device (I/O device) as it can both take pictures (input) and send them to your computer (output).**





## LIGHT PEN

- Optical Input device
- Pointing Device
- An input device that utilizes a **light-sensitive detector** to select objects on a display screen.
- It is **handheld** photosensitive device.
- It allows the user to point to displayed objects or **draw on the screen** in a similar way to a touchscreen.





## TRACKBALL

- It is a **pointing device**.
- A trackball is a **mouse lying on its back**..







## TOUCHPAD

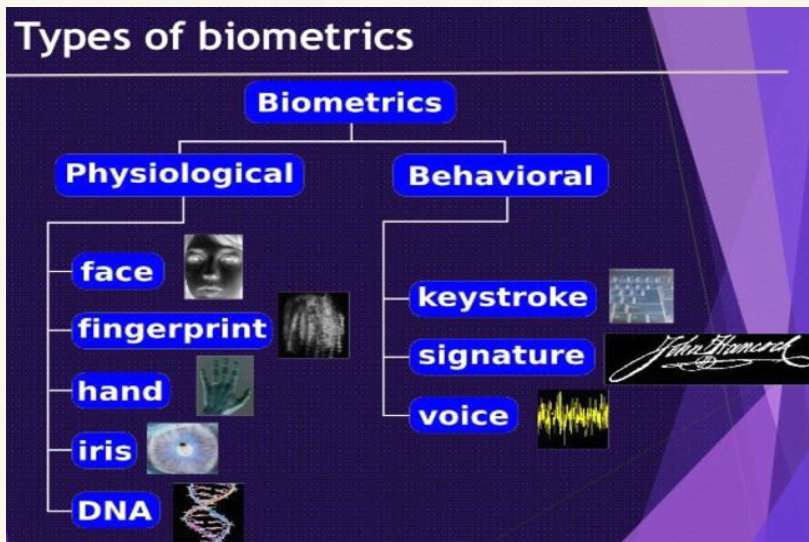
- A touchpad is an **input device** on laptops.
- It allows the user to move a cursor with their finger.
- **Substitute of a mouse.**
- A touchpad is operated by using your finger.
- Touchpad has **two buttons** that allows you to left-click or right-click.





# BIOMETRICS

- In computer security, biometrics refers to **authentication techniques** that rely on measurable physical characteristics that can be automatically checked.
- **Types of Biometric identification schemes** : face, fingerprint, hand, retina, iris, signature, voice..etc.





# MICROPHONE



- Abbreviated as mic.
- Invented by **Emile Berliner**.
- A microphone is a device that captures audio by converting **sound waves into an electrical signal**.





## TOUCH SCREEN

- It is a both **input** and **output** device.
- Touchscreen was developed by American inventor **George Samuel Hurst**.
- A touch screen recognize a touch to its surface area, either with a finger or a stylus.





## TOUCH SCREEN

- **Resistive TS** used in - ATMs, Kiosk, Medical Devices. = Made up of Layers
- **Capacitive TS** used in - Smartphones (Apple iPads and iPhones). = Made up of Insulator & Conductor





### QR CODE

- Stands for - **Quick Response Code**.
- It is a type of two-dimensional **(2D) barcode**.
- It is used to **store addresses** and **URLs**.
- Invented in 1994 by **Denso Wave**, a Toyota subsidiary.







# LECTURE : **HARDWARE**



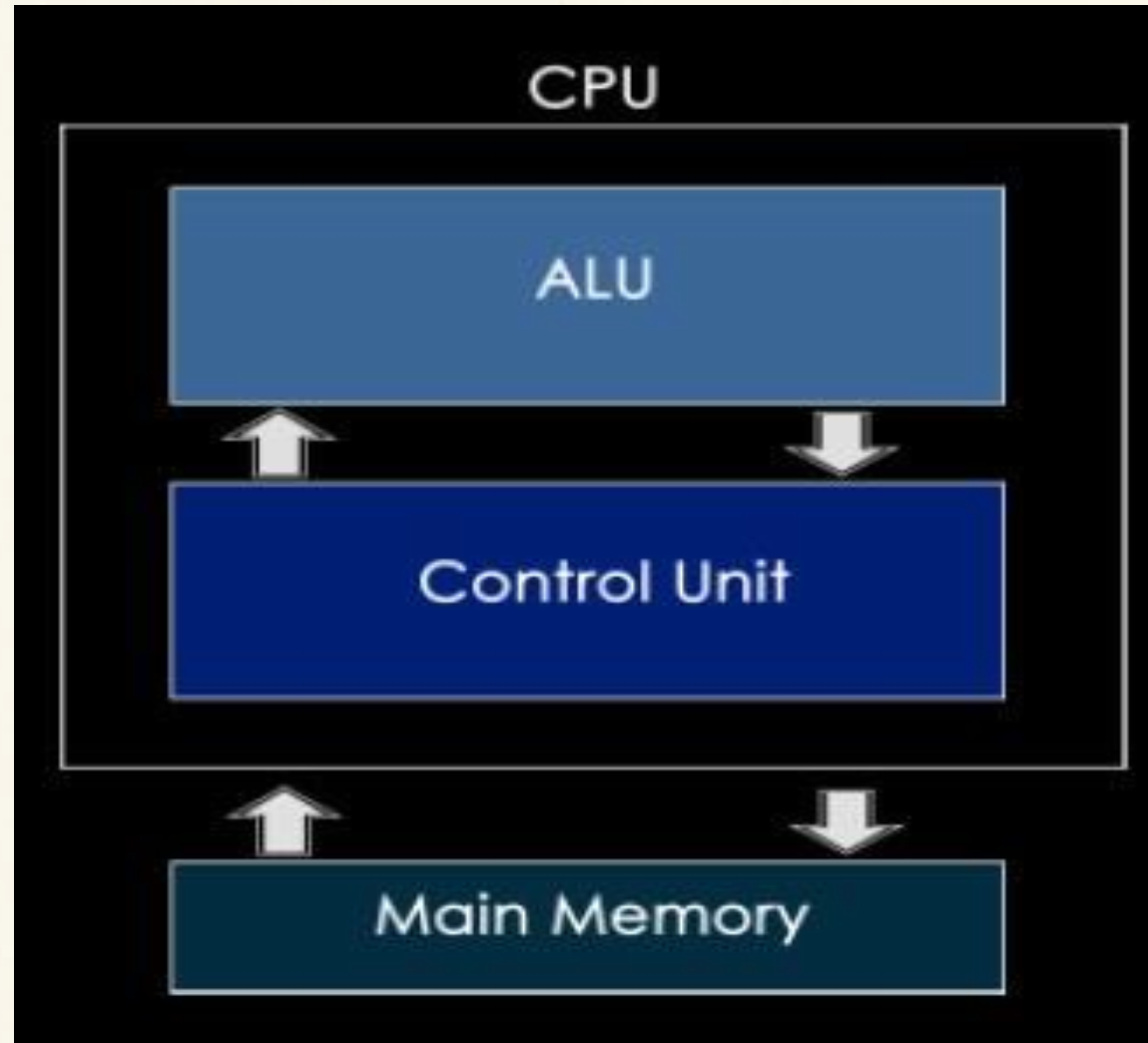


# LECTURE : PROCESSING DEVICES

# PROCESSING DEVICES



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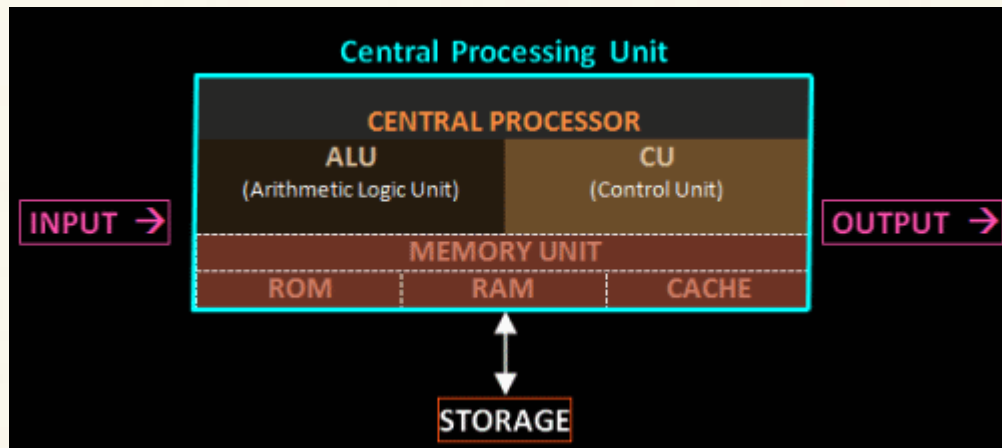
## TYPES

- CPU
- Motherboard
- Chipset
- Clock
- Expansion slots
- Data bus
- Address bus
- Control bus
- Network Card



## CPU :Central Processing Unit

- It is also called the **brain** of the computer.
- Also called a central processor or **main processor**.
- Components of CPU : **CU, ALU, MU**
- The clock rate, or speed of a CPU's is measured in : **HERTZ**
- Modern processor speed is in : **Gigahertz (GHz)**





## CPU :Central Processing Unit

- First Processor : **Intel 4004**
- Microprocessor : **4 Generation**
- **RISC/CISC** : - Architecture design of CPU
- **RISC** stands for 'Reduced Instruction Set Computer'
- **CISC** stands for 'Complex Instruction Set Computer'.
- The RISC processors have a **smaller set of instructions** with few addressing nodes.
- The CISC processors have a **larger set of instructions** with many addressing nodes.



## GPU :Graphics processing unit

- Now a days new processor is using in **mobile phones** called GPU (Graphic Card processor).
- GPU is used for **video rendering**.
- In GPU **parallel processing** technique is used.
- GPUs are used in **embedded systems**, mobile phones, personal computers, workstations, and game consoles.
- The term "GPU" was coined by **Sony**.
- GPU is highly used for **Gaming purpose**.
- In mobile phones GPU is integrated in **processor**.



## MOTHERBOARD/ PCB

- Motherboard is also known as – **Printed Circuit Board**
- A **port of computer** is connected with – Motherboard
- The first motherboard was invented by – **IBM**
- In this VIRUS can not enter.
- In Motherboard data transfer with the help of
  - **Bus** (Control Bus, Address Bus, Data Bus)
- **Types of Motherboard** : **AT** Motherboard (Advance Technology), **ATX** Motherboard (Advanced technology extended).







## ROLE OF BUS IN MOTHERBOARD

### Data Bus :

- Data bus carries the data to be stored.
- It is bidirectional.

### Address Bus :

- Address bus carries the location to where data should be stored.
- It is unidirectional.

### Control Bus :

- It is used by the CPU to communicate with devices.
- It is bidirectional.

**Note:** Speed of Bus is measured in megahertz (MHz)

# TYPES OF PORTS



## SERIAL PORTS

Transmission of data “one bit at a time” over a single communication line

A serial port is male in gender, and has either 9 pins or 25 pins.

Used to connect : Mouse, External modem or other linking software such as for a Personal data assistant (PDA).



## PARALLEL PORTS

Transmission of data “Many bits at once”

Parallel port uses a 25-pin connector.

Used to connect : Printers, Scanners, Joysticks, External Hard Drives & Webcams.

It is often called a Centronics interface

**Note :** Today, the parallel port has been replaced by the new USB port for connecting these same devices to the computer.

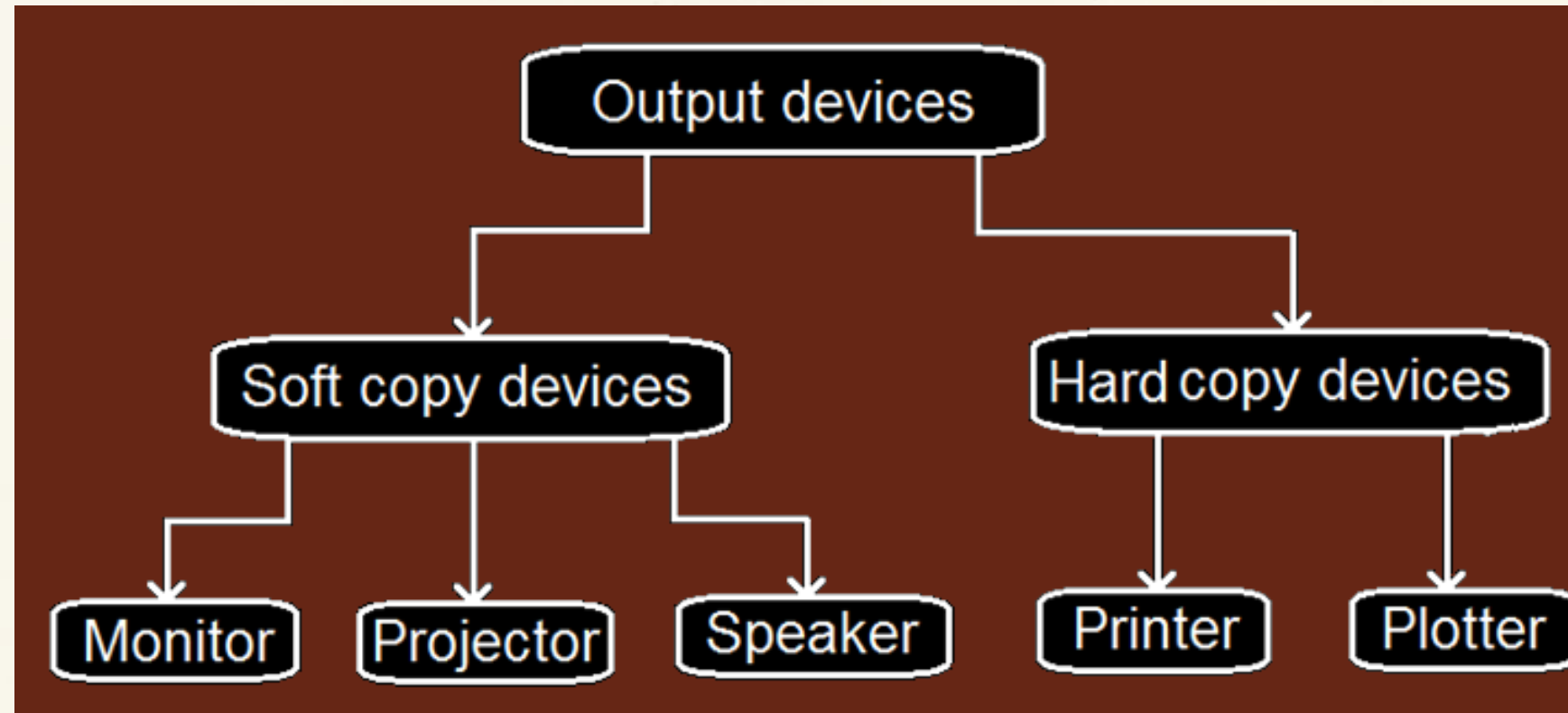


## BIOS

- BIOS is the first software to run when powered on.
- If BIOS is a software than it need to store somewhere, that place where BIOS store called EEPROM.
- BIOS is a firmware.(Firmware is a code written by a programmer.)



# LECTURE : **OUTPUT DEVICES**





## TYPES OF PRINTER

### Impact Printer

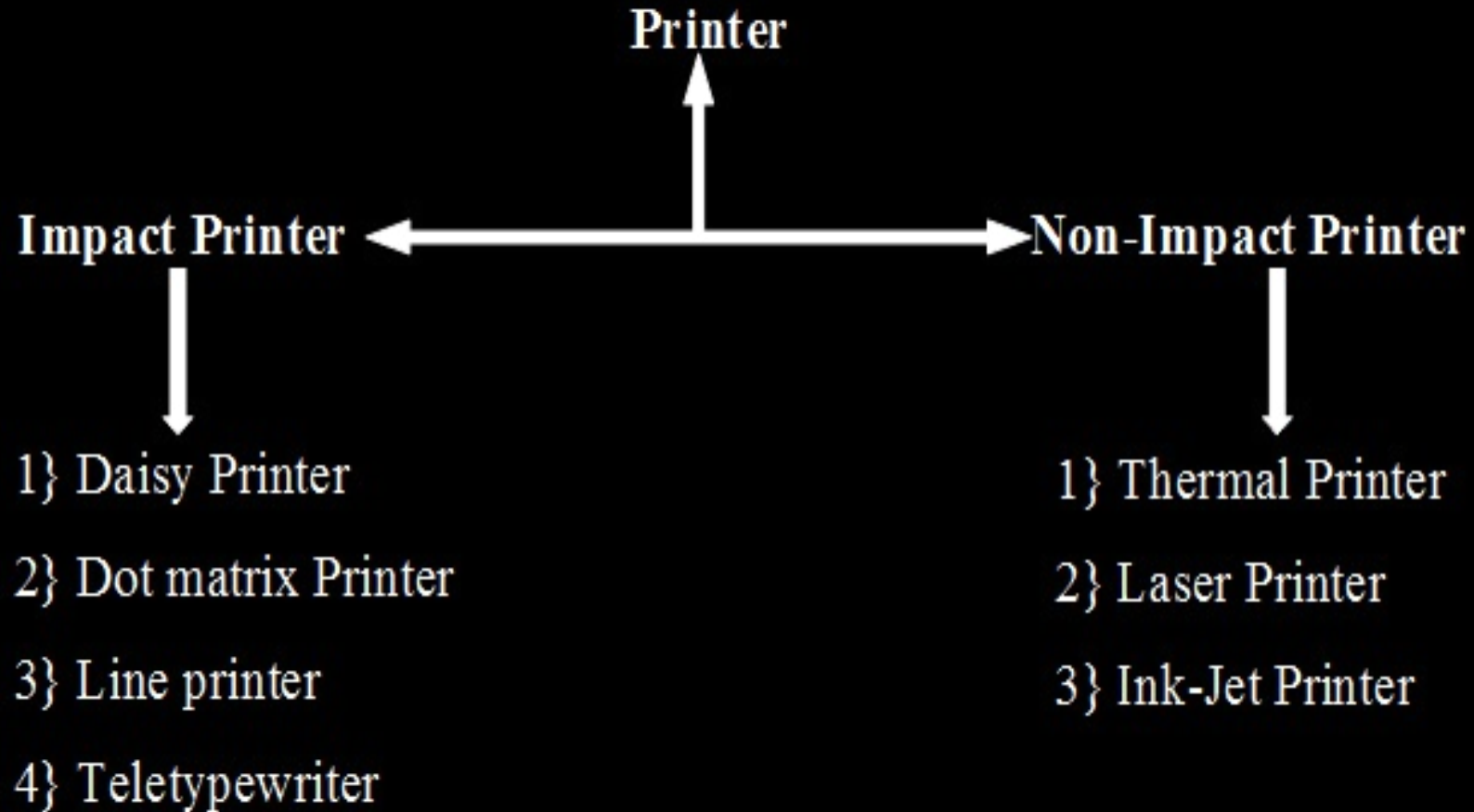
- 1) Impact printer strikes paper directly while printing.
- 2) These printers make noise while printing.
- 3) Impact printers are economic.

### Non-Impact Printer

- 1) Non impact printer does not strike paper directly while printing.
- 2) Non impact printers do not make noise.
- 3) Non impact printers are costly.



## PRINTER TYPES







### PRINTER

**Founder Printer = Johannes Gutenberg**

**First Printer = EP-101 = EPSON**

**Printer Speed =**

- ✓ **CPM (Characters Per Minute)**
- ✓ **LPM (Lines Per Minute)**
- ✓ **PPM (Pages Per Minute)**

**Resolution of a Printer = DPI = Dots Per Inch**



### PRINTER

- ✓ **Daisy Wheel Printer = Can not print Graphics =  
Speed – CPS = Character Per Second**
- ✓ **Dot Matrix Printer = Hammer & Ribbon =  
Speed – CPS = Character Per Second**
- ✓ **Line Printer = Speed – LPM = Lines Per Minute**



### PRINTER

- ✓ **Thermal Printer = No Ink = Thermo chromic Paper = Use heat to print = ATM, POS = PPM**
  - ✓ **Inkjet Printer = Ink Cartridges = PPM = Home & Office**
  - ✓ **Laser Printer = Powder Cartridges/ Toner = PPM = Photocopy Technology**
- \*PPM = Pages Per Minute**



# LECTURE : **HARDWARE**



# LECTURE : **OUTPUT DEVICES**



## PLOTTER

- **Print Vector Graphics = Pen, Pencil, Marker =**  
**Used by Architecture**
- **Types of Plotter : Drum and Flatbed**





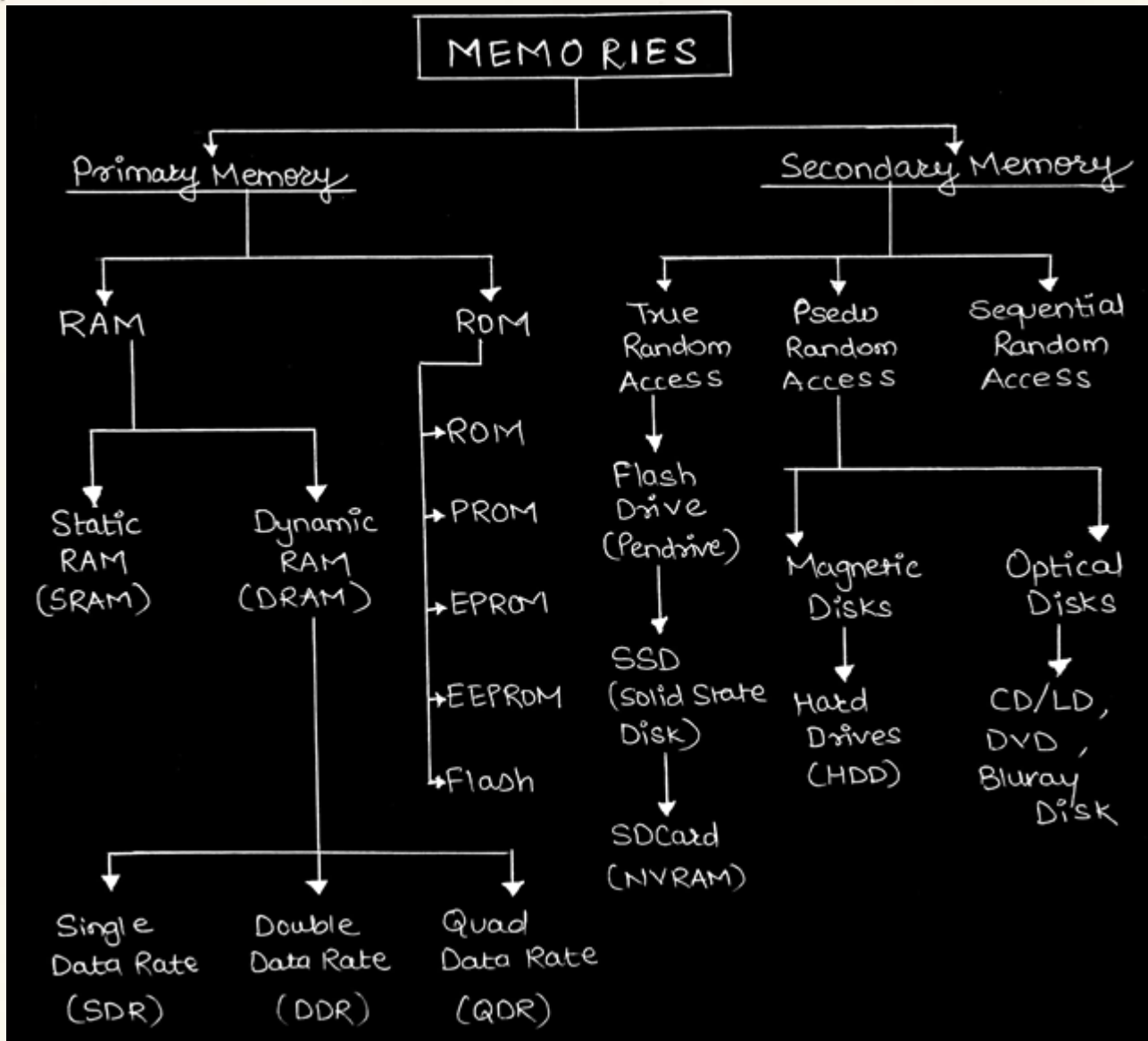
## TYPES OF PLOTTER

- **DRUM plotters** :-It pins the **paper back and forth** on a cylindrical drum while the pen moves left and right. Also known as roller plotters.
- **FLATBED plotters**:-**Paper remains stationary** on a flat surface while a pen moves across it. It is used with many CAD programmes.

**NOTE :** The drum plotters have lower resolutions than flatbed.



# STORAGE DEVICES : MEMORY TYPES



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# SECONDARY MEMORY



- Place where we **store personal data** in computer system is known as SM.
- It is **non volatile** in nature so that we cannot loose the data when power supply is off.
- **Method for Data Accessing :**
  - **Sequential Access** : This is the method in which we search the data sequentially or line by line until you find the desired data. E.g. Magnetic tape, etc.
  - **Random Access** : This is the method in which computer can go directly to the information that the user wants. e.g. magnetic disk, optical disk, etc.

# Types of SECONDARY MEMORY



- **Magnetic Tape** : Magnetic tapes are used for large computers like mainframe.
- **Magnetic Disk** : Data is stored on both the surface of the disk.
  - ✓ **Hard Disk**
  - ✓ **Floppy Disk**
- **Optical Disk**
  - ✓ **CD**
  - **CD ROM**
  - **CD R/W**
  - ✓ **DVD**

# SECONDARY MEMORY QUESTIONS



- 1) Name that place in computer where all the drives ( C:, D:, E: ) are visible = **Windows Explorer/ File Explorer**.
- 2) “A” Drive & “B” Drive are reserved for : **Floppy Drive**
- 3) In hard disk was introduced with which drive : **C Drive**
- 4) In DVD, V stands for : **Video/Versatile**
- 5) Name the Optical Disk : **CD/DVD**
- 6) Who invented Optical Disk : **James Russell**
- 7) WORM stands for : **Write Once Read Many**
- 8) Which optical disk is used for storing several hours of video in high-definition and ultra high-definition resolution : **Blu-ray disc**

# SECONDARY MEMORY QUESTIONS



9) Single-layer BRD comes with a storage capacity of : 25 GB

10) Dual-layer BRD comes with a storage capacity of : 50 GB

11) Name the company who designed BRD : Sony

12) Speed of hard disk depends upon speed of : RPM  
(Revolutions Per Minute) = 5400 RPM/7200 RPM

13) SSD STANDS FOR : Solid State Drive

➤ Unlike a hard drive, an SSD has no moving parts which gives it advantages such as faster access time, noiseless operation, higher reliability, and lower power consumption.

14) The process of dividing the disk into tracks and sectors is called : Formatting



# Topic : **SUPER COMPUTER**



1) Fastest Computer.? =

= Super Computer

2) Speed of Supercomputer is measured in.? =

= FLOPS

= Floating-point Operations Per Second

3) World's First Supercomputer?

= CDC 6600 = 1964

4) World's first most successful Supercomputer?

= Cray-1





**5) Father of Supercomputer.? =**

**= Seymour Cray**

**6) Father of Indian Supercomputer.? =**

**= Vijay Pandurang Bhatkar**

**7) India's First Supercomputer?**

**= Param 8000**

**8) India's Fastest Supercomputer?**

**= Param Pravega**

**= 3.3 petaflops**

**= Designed by = C-DAC**

**= Centre for Development of Advanced  
Computing**





## 9) World's Fastest Supercomputer.?

=

Name = **Fujaku**

Country = **Japan**

Company = **Fujitsu**

Speed = **442 petaflops**





**10) What is the meaning of PARAM (the name of India's first supercomputer)?**

**= Supreme / First**



# Topic : **Networking Ports**



- 1) **FTP = 21**
- 2) **Telnet = 23**
- 3) **SMTP = 25**
- 4) **DNS = 53**
- 5) **DHCP Server = 67**
- 6) **DHCP Client = 68**
- 7) **HTTP = 80**
- 8) **POP-3 = 110**
- 9) **HTTPS = 443**



# Topic : Digital Assistant





- ✓ **Apple = Siri = 2011**
- ✓ **Blackberry = Blackberry Assistant = 2013**
- ✓ **Amazon = Alexa = 2014**
- ✓ **Microsoft = Cortana = 2014**
- ✓ **Facebook = Facebook M = 2015**
- ✓ **Samsung = Bixby = 2017**
- ✓ **Google = Google Now → Google Assistant  
= 2012-2016**





# Topic : **IP/MAC Address** **Founder/Bit/Format**

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- ✓ **IPV-4 Developer = DARPA = 1981**
- ✓ **IPV-6 Developer = Internet Engineering Task Force = 1995**
- ✓ **MAC Address Created = Xerox PARC scientists**

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- ✓ **IPV-4 BIT = 32**
- ✓ **IPV-6 BIT = 128**
- ✓ **MAC Address BIT = 48**

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- ✓ **IPV-4 Format = Decimal notation**
- ✓ **IPV-6 Format = Hexadecimal numbers**
- ✓ **MAC Address Format = Hexadecimal numbers**

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# Topic : **Windows Support Ends**

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# Windows Support Ends



**Windows XP = April 8, 2014**

**Windows 7 = January 14, 2020**

**Windows 8 = January 12, 2016**

**Windows 8.1 = January 10, 2023**

**Windows 10 = October 14th, 2025**

**Windows 11 = October 5th, 2021 -  
October 10th, 2023/24**

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# Topic : **XEROX PARC**

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# XEROX PARC

**XEROX Parc = by Alan Kay**

**1) MAC Address**

**2) GUI Concept**

**3) Laser Printer**

**4) Ethernet**

**4) PARC = Palo Alto Research Centre**

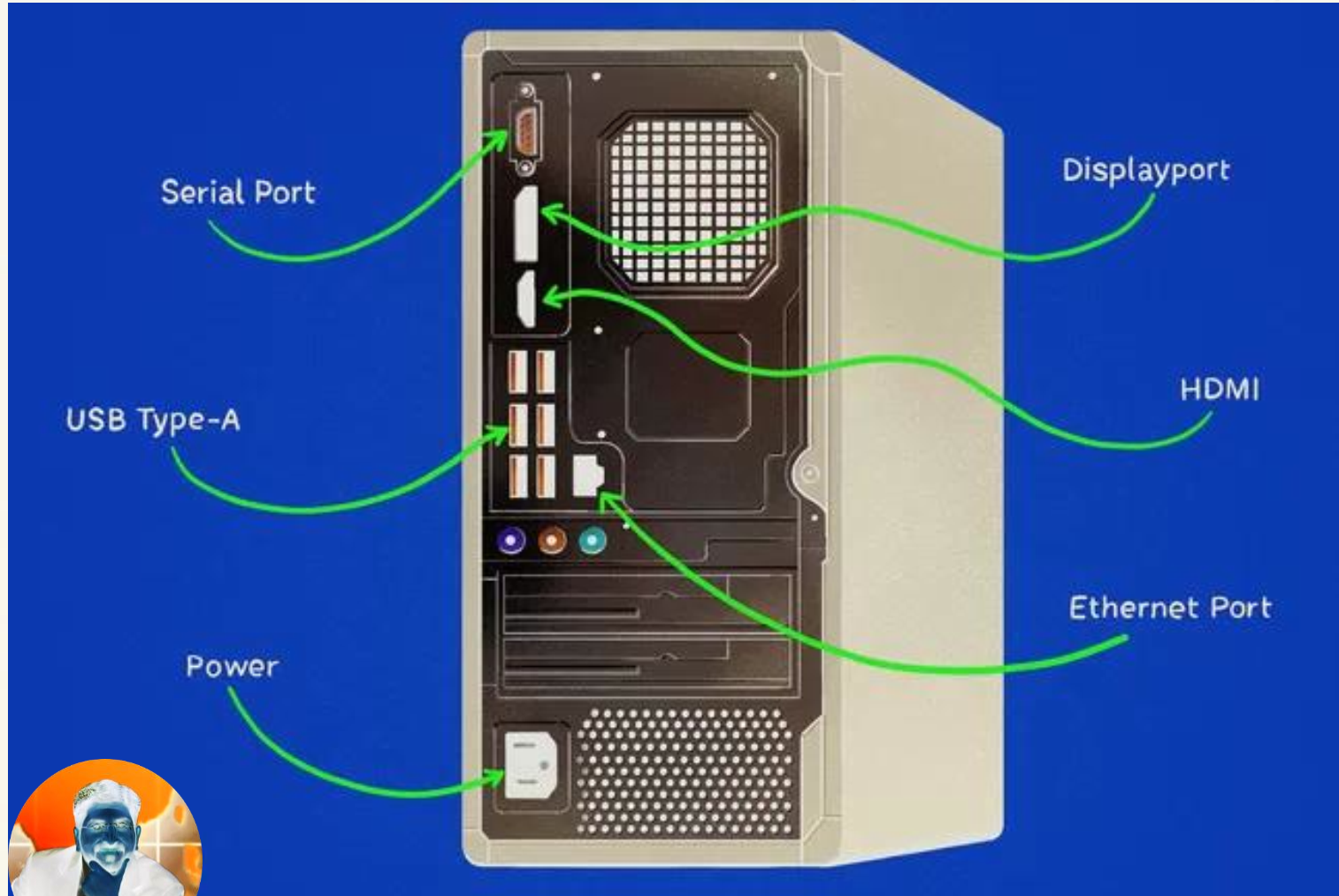
**5) Founded in = 1970 as a part of Xerox**

**Research**

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# Topic : **HARDWARE PORTS**





# HARDWARE PORTS

- ✓ **Parallel Ports = Printer & Scanner**
- ✓ **Apple Computer Ports = SCSI Ports**
- ✓ **Serial Ports/COM Ports = Mouse, Keyboard, Modem**
- ✓ **PS/2 Port = IMB Developed = Mouse & Keyboard**
- ✓ **VGA = Video Graphics Array = Connect Monitors**
- ✓ **DVI = Digital Visual Interface = Connect Monitors**



# HARDWARE PORTS

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- ✓ **HDMI = High Definition Multimedia Interface = HDTV, Projector, DVD player, or Blu-ray player**
- ✓ **LAN/Ethernet Port = RJ 45 Connector**
- ✓ **Audio Port =**
  - Audio Input = Blue**
  - Headphones = Green**
  - Microphone = Pink**

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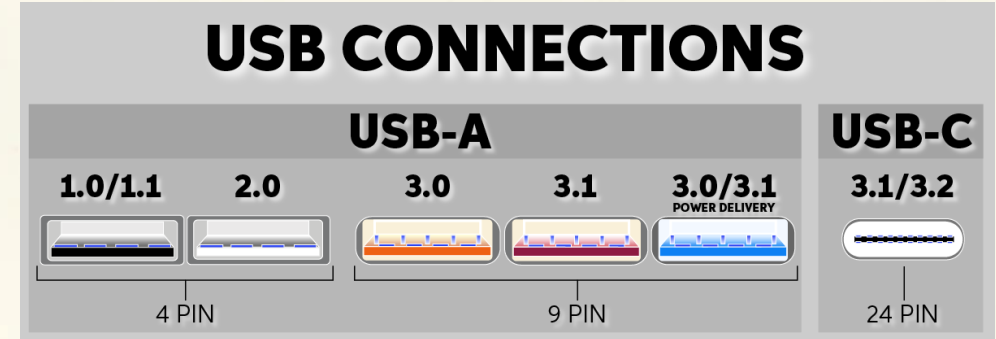
# HARDWARE PORTS

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USB Ports =

- ✓ USB = UNIVERSAL SERIAL BUS.
- ✓ YEAR = 1996
- ✓ FOUNDER = AJAY BHATT
- ✓ USB 1.0/2.0 = White/Black
- ✓ USB 3.0 = Blue
- ✓ USB 3.1 = Teal Blue (bluish-green )



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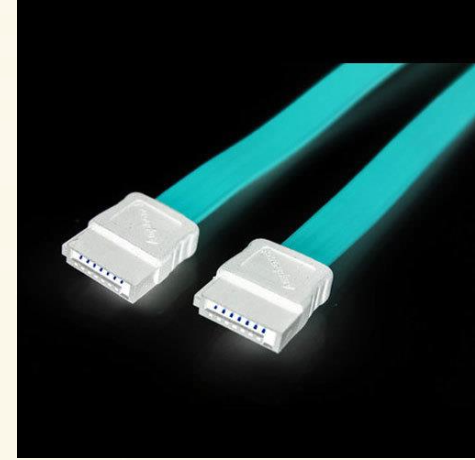


# HARDWARE PORTS

**SATA/PATA=**

- ✓ Used for connection = Secondary Storage Devices
- ✓ SATA = Serial Advanced Technology Attachment
- ✓ PATA = Parallel Advanced Technology Attachment

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**Arora Educator**

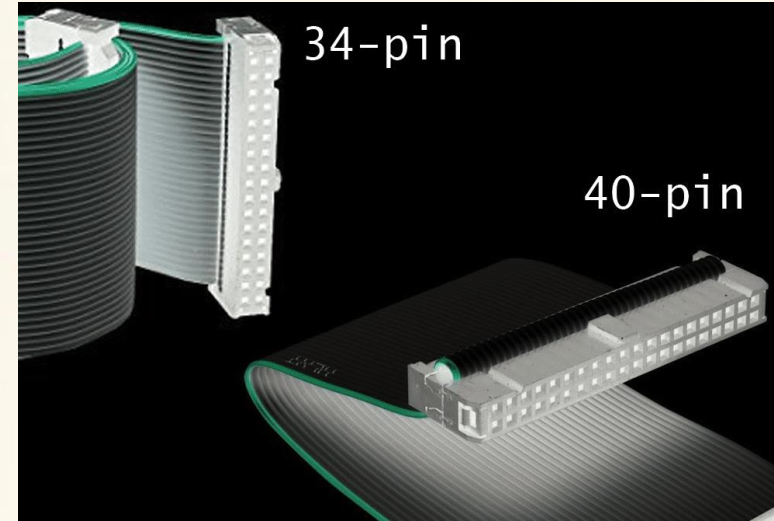




# HARDWARE PORTS

IDE =

- ✓ IDE = Integrated Drive Electronics.
- ✓ IDE Called = PATA
- ✓ Connect = Hard Drive & Optical Drive.



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# HARDWARE PORTS

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SCSI =

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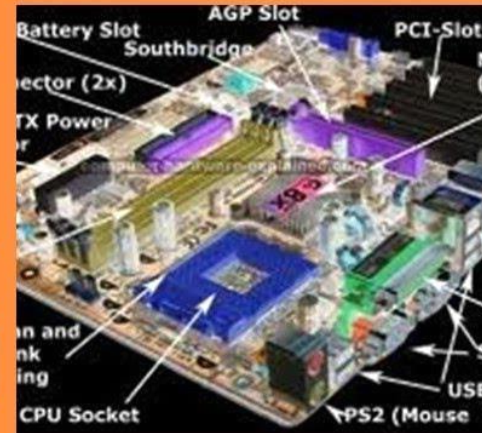
- ✓ SCSI = Small Computer System Interface.
- ✓ Connecting and transferring data between = Computers and Peripheral devices.
- ✓ Used by = Apple Computers.

# FUNDAMENTALS & HARDWARE

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## COMPUTER HARDWARE



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# Q.1. What component of a computer maintain its time & date regularly.?

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- 1) Processor
- 2) ROM
- 3) Processor
- 4) CMOS

**Q.2. Which among the following is not a peripheral hardware device in a computer system?**

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- 1) Mouse**
- 2) Keyboard**
- 3) Motherboard**
- 4) Printer**



**Q.3. Restarting a computer that is already on is referred to as?**

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- 1) Booting**
- 2) Warm Booting**
- 3) Cold Booting**
- 4) Fresh Booting**

**Q.4. When cutting and pasting, the item cut is temporarily stored in?**

**Arora Educator**



**1) Register**

**2) Clipboard**

**3) RAM**

**4) ROM**



**Q.5. \_\_\_\_can manage the whole printing process?**

- 1) Spooling**
- 2) Sniffing**
- 3) Spoofing**
- 4) Formatting**

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**Q.6. Identifying the source of problem is called as?**

**1) Trouble shooting**

**2) Analysing**

**3) Corrupting**

**4) Debugging**

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**Q.7. The resolution of a printer is measured in?**

**1) Dots per inch**

**2) Hertz**

**3) Mbps**

**4) Bits**

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## Q.8. What do you need for an ink jet printer?

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- 1) A drum
- 2) A cartridge
- 3) A ribbon
- 4) All of the above

## Q.9. Founder of Laptop.?

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- 1) Adam Osborne
- 2) Bill Gates
- 3) Jan Koum
- 4) Mark Zuckerberg

**Q.10. Reusable optical storage will typically have the acronym ?**

**Arora Educator**



- 1) CD**
- 2) DVD**
- 3) BRD**
- 4) RW**

**Q.11. A computer system that is old and perhaps not satisfactory is referred to as a(n) ?**

**Arora Educator**



- 1) Ancient system**
- 2) Historical system**
- 3) Age old system**
- 4) Legacy system**



**Q.12. The technology that stores only the essential instructions on a microprocessor chip and thus enhances its speed is referred to as?**

**Arora Educator**



- 1) CISC
- 2) RISC
- 3) CD ROM
- 4) WIFI

**Reduced Instruction Set Computer.**

**Q.13. Dot matrix and band printers are \_\_\_\_\_ printers.?**

**Arora Educator**



- 1) Laser
- 2) Impact**
- 3) Ink jet
- 4) None of these

## Q.14. Name the first Mainframe Computer.?

Arora Educator

1) Micral

2) PDP-8

3) Harvard Mark I

4) Param 8000



## Q.15. Name the first Indian Super Computer.?

Arora Educator

- 1) Micral
- 2) PDP-8
- 3) Harvard Mark I
- 4) Param 8000





**Q.16. Name the first Super Computer.?**

- 1) Micral**
- 2) PDP-8**
- 3) Param 8000**
- 4) CDC 6600**

**Q.17. Name the first Personal Computer.? Arora Educator**



- 1) ENIAC
- 2) MARK-1
- 3) Altair
- 4) Siddharth

**Q.18. While booting Operating System is loaded into .?**

**Arora Educator**

- 1) ROM**
- 2) Hard Disk**
- 3) RAM**
- 4) Cache**







**Q.19. Floppy Disk was invented by.?**

- 1) Alan Turing**
- 2) Alan Smith**
- 3) Alan Shugart**
- 4) Tim Berners Lee**

**Q.20. Which is the first automatic electronic digital computer.?**

**Arora Educator**

**Atanasoff – Berry Computer**



- 1) ENIAC
- 2) MARK I
- 3) Z3
- 4) ABC

**Arora Educator**

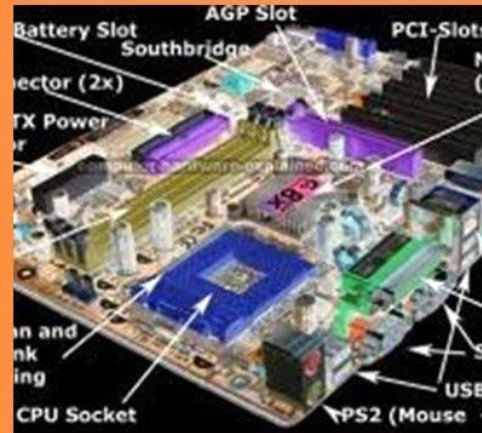


# FUNDAMENTALS & HARDWARE

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## COMPUTER HARDWARE



**Q.20. Which is the first automatic electronic digital computer.?**

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**Atanasoff – Berry Computer**



- 1) ENIAC
- 2) MARK I
- 3) Z3
- 4) ABC

**Q.21. Which printer cannot produce graphics output.?**

**1) Daisy Wheel Printer**

**2) Drum Printer**

**3) Dot Matrix Printer**

**4) Thermal Printer**

**Arora Educator**



**Q.22. Name the founder of CD & DVD.?**

**Arora Educator**



- 1) James Russell**
- 2) James Gosling**
- 3) James Bond**
- 4) Martin Cooper**



**Q.23. Which of the following is READ - only disc.?**

- 1) DVD-R
- 2) DVD-ROM
- 3) DVD-RW
- 4) CD-R

**Arora Educator**





**Q.24. Which one of the following is Cloud Platform by Microsoft.?**

**Arora Educator**



- 1) Azure**
- 2) AWS**
- 3) Cloudera**
- 4) All of these**

**Q.25. Laser printer is invented by .?**

**Arora Educator**



**1) Intel**

**2) Xerox**

**3) Sony**

**4) HP**

**Q.26. 3.5" floppy disk store how much data.?**

**Arora Educator**



**1) 1.44 KB**

**2) 1.44 MB**

**3) 1.44 GB**

**4) 1.44 Bytes**



**Q.27. In Hard Disk data is stored in .?**

- 1) Sector**
- 2) Tracks**
- 3) Cylinder**
- 4) Head**

**Q.28. IDE (ATA) or SATA interface connect Mother Board with .?**

**Arora Educator**



- 1) Processor**
- 2) RAM**
- 3) Monitor**
- 4) Hard Disk**

**Q.29. Analytical Engine, the first fully automatic calculating machine was developed by.?**

**Arora Educator**



- 1) Charles Babbage**
- 2) Blaise Pascal**
- 3) Leibniz**
- 4) John Von Neumann**

**Q.30. Which was the first mechanical calculating device.?**

**Arora Educator**



- 1) UNIVAC**
- 2) Abacus**
- 3) PASCALINE**
- 4) Leibniz Calculator**



## Q.31. Abacus can perform.?

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- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Both (1) and (2)

**Q.32. The first electromechanical machine “Tabulating machine” was invented by.?**

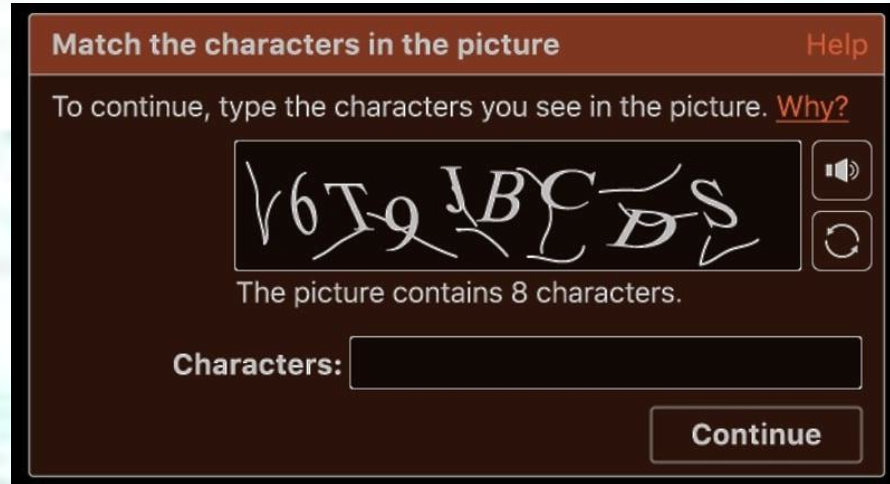
**Arora Educator**



- 1) John Napier**
- 2) Pascal**
- 3) Abacus**
- 4) Herman Hollerith**

**Q.33. It is a type of challenge–response test used in computing to determine whether or not the user is human.?**

- 1) Pin Code**
- 2) Password**
- 3) Cryptography**
- 4) Captcha**



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**Completely Automated Public  
Turing test to tell Computers  
and Humans Apart**

**Q.34. The basic architecture of computer was developed by.?**

**Arora Educator**

**1) John Von Neumann**

**2) Charles Babbage**

**3) Blaise Pascal**

**4) All of these**



**Q.35. What is the term for a temporary storage area that compensates for differences in data rate and data flow between devices.?**

**Arora Educator**



- 1) Buffer**
- 2) Bus**
- 3) Modem**
- 4) Channel**

**Q.36. How many color dots make up one color pixel on a screen.?**

**Arora Educator**



- 1) 265
  - 2) 16
  - 3) 8
  - 4) 3
- red, blue, and green

**Q.37. A hard disk drive can be directly connected to a PC via a .?**

**Arora Educator**



- 1) SCSI interface**
- 2) Parallel interface**
- 3) WAN interface**
- 4) USB interface**

**Small Computer System Interface**



**Q.38. In context of PC assembly, in RJ45, the full form of RJ is.?**

**Arora Educator**



- 1) Rigid Jack**
- 2) Rigid Jet**
- 3) Registered Jet**
- 4) Registered Jack**

**Q.39. Modifier Key in a general Keyboard are .?**

**Arora Educator**

- 1) Ctrl**
- 2) Alt**
- 3) Shift**
- 4) All**



## Q.40. Name the World Fastest Super Computer.?

Arora Educator



- 1) Fujitsu Fugaku
- 2) IBM Summit
- 3) IBM/ Nvidia/Mellanox Sierra
- 4) Sunway TaihuLight

**Q.41. Which device converts AC to DC .?**

**Arora Educator**



**1) SMPS**

**Switched-mode power supply**

**2) UPS**

**3) Mouse**

**4) CPU**

**Q.42. “A Drive” & “B Drive” in a computer is reserved for .?**

**Arora Educator**



- 1) Hard Disk**
- 2) Compact Disk**
- 3) DVD**
- 4) Floppy Disk**

**Q.43. Which chip contains the system BIOS and can hold data permanently, even without electricity.?**

**1) Flash ROM**

**2) NVRAM**

**3) RAM**

**4) ROM**

**Arora Educator**



## Q.44. Where do modern PCs store CMOS settings.?

1) BIOS

2) Flash ROM

3) NVRAM

4) Southbridge

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## Q.45. What is POST.?

- 1) Post operative self test
- 2) PC operating system test
- 3) Power-on self test
- 4) Personal overall starter test



**Q.46. Where is POST located.?**

- 1) System ROM**
- 2) CMOS**
- 3) POST expansion card**
- 4) RAM**

**Q.47. A digital camera is a \_\_\_\_\_ type of device.?**

**Arora Educator**



- 1) Output**
- 2) Processing**
- 3) Input**
- 4) Input & Output both**

**Q.48. A Webcam is a \_\_\_\_\_ type of device.?**

**Arora Educator**



- 1) Output**
- 2) Processing**
- 3) Input**
- 4) Input & Output both**



**Q.49. Touch Screen is.?**

- 1) Input**
- 2) Output**
- 3) Processing**
- 4) Input & Output both**

**Q.50. Out of the following keys which are not on the number pad.?**

**Arora Educator**

**1) Enter**

**2) Ctrl**

**3) Del**

**4) Num Lock**



**Q.51. Which of the following disks can be record only once.?**

**Arora Educator**



- 1) CD-R and DVD-R**
- 2) CD-RW and DVD-RW**
- 3) Blu-Ray Disk**
- 4) CD-RAM and DVD-RAM**



**Q.52. The time between program input and output is called.?**

**Arora Educator**



- 1) Turn around time**
- 2) Waiting time**
- 3) Execution time**
- 4) Delay time**

**Q.53. The difference between people with access to computers and the Internet and those without this access is known as the.?**

**Arora Educator**



- 1) Digital Divide**
- 2) Internet Divide**
- 3) Web Divide**
- 4) E-illiteracy**

**Q.54. Which have the largest memory storing capacity from optical media group.?**

**Arora Educator**



**1) DVD-RW**

**25 GB (single-layer)**

**2) DVD-ROM**

**50 GB (dual-layer)**

**3) Blu-Ray**

**4) DVD-RAM**

**Q.55. In the computer the term “Backing” means.?**

**Arora Educator**



- 1) Starting the computer**
- 2) Splitting a large file**
- 3) Copy files and data into other storage**
- 4) Protect computer from virus**

**Q.56. The parity bit is added for.?**

**Arora Educator**



- 1) coding**
- 2) indexing**
- 3) error detection**
- 4) control key**

**Q.57. Where does your PC store your programs when the power is off .?**

**Arora Educator**



**1) DRAM**

**2) Cache**

**3) ROM**

**4) Hard Disk Drive**

**Q.58. Which key on keyboard of a computer does not have its name printed on the key.?**

**Arora Educator**



- 1) ESC**
- 2) SHIFT**
- 3) F1**
- 4) SPACE**





**Q.59. What does a light pen contain.?**

- 1) Refillable ink**
- 2) Light sensitive elements**
- 3) Pencil lead**
- 4) Blue Ink**

**Q.60. What are the individual dots which make up a picture on the monitor screen called.?**

**Arora Educator**



- 1) Colored spots**
- 2) Pixies**
- 3) Pixels**
- 4) Resolution**



**Q.61. A laser printer does NOT use.?**

- 1) A photo-conductive drum**
- 2) A print head**
- 3) A laser beam**
- 4) Toner**

**Q.62. The amount of data that a disk may contains known as the disk's.?**

**Arora Educator**



- 1) Volume**
- 2) Size**
- 3) Tracking Unit**
- 4) Storage capacity**

**Q.63. The key used to restart a computer is .?**

**Arora Educator**

- 1) Del + Ctrl
- 2) Backspace + Ctrl
- 3) Ctrl + Alt + Del
- 4) Reset



**Q.64. Adobe developed\_\_\_\_\_, which allows the document to be transmitted and stored without loss of formatting.?**

**Arora Educator**



- 1) Defragmentation**
- 2) Assembler Document Format**
- 3) Filtering Format**
- 4) Portable Document Format**

**Q.65.Charles Babbage designed two engine. They are.?**

**Arora Educator**



- 1) Addition and Subtraction Engine**
- 2) Analytical and Difference Engine**
- 3) Analytic and Digital engine**
- 4) Addition and Multiplication Engine**

**1822 = Charles Babbage (Difference Engine)**

**1834 = Charles Babbage (Analytical engine)**



**Q.66. Which of the following device was developed by Jack Kilby & Robert Noyce.?**

**Arora Educator**



- 1) Transistor
- 2) IC chip
- 3) Telegraph
- 4) Mouse

**Q.67. What is the maximum number of Primary Partitions that can be created on a Hard-disk.?**

**Arora Educator**

- 1) 1 Partition**
- 2) 2 Partition**
- 3) 3 Partition**
- 4) 4 Partition**



**Q.68. \_\_\_\_\_ and \_\_\_\_\_ keys are used with the combination of other key for shortcut and other special functions.?**

**Arora Educator**



- 1) Ctrl, Alt**
- 2) Function, Toggle**
- 3) Delete, Insert**
- 4) Caps lock, Num lock**

**Q.69. Date and Time are available on the desktop at .?**

**Arora Educator**



- 1) Keyboard**
- 2) Recycle bin**
- 3) My computer**
- 4) Task bar**



**Q.70. Blank CD is also called as.?**

- 1) CD-R**
- 2) CD-ROM**
- 3) CD-WORM**
- 4) CD-RW**



**Q.71. Size of Compact disk is.?**

- 1) 300 MB**
- 2) 400 MB**
- 3) 670 MB**
- 4) 700 MB**

**Q.72. It is the process of dividing the disk into tracks & sectors.?**

**Arora Educator**



- 1) Arrangement**
- 2) Partitioning**
- 3) Formatting**
- 4) Sector**



**Q.73. What is the process of smoothing out digital noise in graphics called.?**

**Arora Educator**



- 1) Refracting**
- 2) Rounding**
- 3) Flattening**
- 4) Dithering**

**Q.74. Personal Computer is which type of computer.?**

**Arora Educator**

- 1) Mini Computer
- 2) Micro Computer
- 3) Mainframe Computer
- 4) Super Computer



**Q.75. Name the fastest supercomputer of India.?**

**Arora Educator**



**1) PRATYUSH**

**2) MIHIR**

**3) PARAM-SIDDHI AI**

**4) PARAM 8000**

**Q.76. Time during which a job is processed by the computer is?**

**Arora Educator**



- 1) Execution Time**
- 2) Delay Time**
- 3) Real Time**
- 4) Waiting Time**

## Q.77. Time Taken to read & write the hard disk.?

- 1) Seek Time
- 2) Latency Time
- 3) Request Time
- 4) Response Time

Arora Educator





**Q.78. Time delay between a request for data and the return of the data in Hard Disk is called.?**

- 1) Seek Time**
- 2) Latency Time**
- 3) Delay Time**
- 4) Access Time**



**Q.79. RAID stands for .?**

- 1) Redundant array of independent disks**
- 2) Redundant array of individual disks**
- 3) Reusable Array of independent disks**
- 4) Reusable array of individual disks**
- 5) None of these**





**Q.80. IBM-PC is an example of.?**

- 1) A main frame**
- 2) Machine-in-built**
- 3) Micro computer**
- 4) Special purpose**



**Q.81. This is the Building block of CPU.?**

- 1) CU
- 2) ALU**
- 3) MU
- 4) Register

**Q.82. CPU used in Mobile phones called.?** **Arora Educator**



**1) Processor**

**2) CMOS**

**3) Firmware**

**4) GPU**

**Graphics processing unit**



**Q.83. The personal computer industry was started by.?**

- 1) IBM**
- 2) Apple**
- 3) Compaq**
- 4) HCL**

# Q.84. Microprocessors can be used to make.?

Arora Educator



- 1) Computer
- 2) Digital systems
- 3) Calculators
- 4) All of these

**Q.85. Which printer require special paper for printing .?**

**Arora Educator**



- 1) Line Printer**
- 2) Laser Printer**
- 3) Inkjet Printer**
- 4) Thermal Printer**

**Q.86. Approximate range of Bluetooth is.? Arora Educator**



- 1) 5 mt
- 2) 2 mt
- 3) 10 mt
- 4) 15 mt





**Q.87. Size of DVD is.?**

- 1) 4 GB**
- 2) 7.4 GB**
- 3) 4.7 GB**
- 4) 16 Gb**

**Q.88. It is a component of motherboard which absorbs the heat produced by the processor and other components of a computer.?**

**Arora Educator**

- 1) Heat Sink**
- 2) Northbridge**
- 3) CPU Socket**
- 4) CMOS Battery**



# Q.89. Software use to convert scanned image into text file?

Arora Educator

- 1) OCR
- 2) OMT
- 3) RFID
- 4) FAX



**Q.90. A byte can represent any number between 0 and \_\_\_\_\_.**

**Arora Educator**



**1) 8**

**2) 255**

**3) 256**

**4) 1024**



**Q.91. A Dumb Terminal is ?**

- 1) An embedded microprocessor**
- 2) Extensive memory**
- 3) Independent processing capability**
- 4) Keyboard and Screen**

**Q.92. Who among the following is known as “Father of Modern Computer Science” ?**

**Arora Educator**



- 1) JW Mauchly
- 2) Alan Turing
- 3) Charles Babbage
- 4) JP Eckert



# Q.93. Name of Signal sent by system to respond?

**Arora Educator**



1) Program

2) Software

3) Interrupt

4) Popup



**Q.94. Which device typically attachable to computer keyboard that allows a blind people to read.?**

- 1) Light Pen**
- 2) Joystick**
- 3) Touch screen**
- 4) Braille display**



**Arora Educator**





**Q.95. What is the meaning of Hibernate?**

- 1) Restart the computer in Safe Mode**
- 2) Boot the computer in Safe Mode**
- 3) Shutdown the computer with terminating the running applications**
- 4) Shutdown the computer without closing running applications**

**Q.96. Which Key deletes the character to the left of the cursor?**

**Arora Educator**



- 1) End
- 2) Backspace
- 3) Home
- 4) Delete

**Q.97. RAM can be treated as the \_\_\_\_\_ for the computer's processor?**

**Arora Educator**



- 1) Brain**
- 2) Super Memory**
- 3) Store Room**
- 4) Waiting Room**

**Q.98. Which technology is used in 3D printer for printing ?**

**Arora Educator**



- 1) Laser Technology**
- 2) High Definition**
- 3) Fused Deposition Modeling**
- 4) Serial Line Modeling**

## Q.99. Which Cartridge is used in Laser Printer?

Arora Educator



- 1) Ink Cartridge
- 2) Toner Cartridge
- 3) Paper Cartridge
- 4) All of these



**Q.100. What is the speed of computer measured in?**

- 1) Nanoseconds**
- 2) Kilo-seconds**
- 3) Gigahertz**
- 4) Megabytes**



**Arora Educator**





**Q.101. Speed of modern printers are measured in ?**

**1) CPM**

**2) DPI**

**3) LPM**

**4) PPM**

**Arora Educator**





## Q.102. Founder of Plotter?

- 1) Douglas Engelbert
- 2) Alan Turing
- 3) Christopher Latham Sholes
- 4) Remington-Rand

**Q.103. Which USB has same connector on both ends ?**

- 1) Type A**
- 2) Type B**
- 3) Type C**
- 4) Type D**

**Arora Educator**



**Q.104. How many devices a USB port can support?**

**1) 32**

**2) 9**

**3) 27**

**4) 127**

**Arora Educator**



**Q.105. Which one allows movements in all directions .?**



- 1) Mouse
- 2) Joystick
- 3) Light pen
- 4) Track ball

**Q.106. Punched Cards were introduced by?**

**Arora Educator**



- 1) James Russell**
- 2) Reynold B Johnson**
- 3) Herman Hollerith**
- 4) John Von Neumann**



**Q.107. It is the process of collecting all the scattered files & folders?**

- 1) Fragmentation**
- 2) Defragmentation**
- 3) Disk Cleanup**
- 4) Disk Check**



**Q.108. Program promised by publisher but never released.?**

**Arora Educator**



**1) Shareware**

**2) Software**

**3) Vaporware**

**4) Mindware**

**Q.109. To access properties of an object, we use mouse to.?**

**Arora Educator**



**1) Left Click**

**2) Right Click**

**3) Drag**

**4) Drop**

**Q.110. What menu is selected for printing .?**

**Arora Educator**



- 1) Edit**
- 2) Special**
- 3) File**
- 4) Tools**

**Q.111. Which has highest printing quality.?** **Arora Educator**



- 1) Impact Printer
- 2) Daisy Wheel Printer
- 3) Plotter
- 4) Thermal Printer

# Q.112. Speed of Supercomputer is measured in.?

1) Hertz

2) RPM

3) Flops

4) Clock Speed

Arora Educator



**Q.113. What is the size of a sector on a hard disk.?**

**1) 512K**

**2) 1K**

**3) 512 bytes**

**4) 4K**

**Arora Educator**



**Q.114. Among these which is the type of CD.?**

**Arora Educator**



- 1) CD-R**
- 2) CD-ROM**
- 3) CD-WORM & CD-RW**
- 4) All of these**



**Q.115. Which process is used to record data on to an Compact disc.?**

**Arora Educator**



- 1) Reading**
- 2) Accepting**
- 3) Accessing**
- 4) Burning**

# Q.116. Process of copying audio or video content from a compact disc.?

**Arora Educator**



- 1) Burning
- 2) Downloading
- 3) Uploading
- 4) Ripping

**Q.117. The I/O devices are connected to the CPU via.?**

**Arora Educator**



- 1) SDRAM's**
- 2) Control circuits**
- 3) Signals**
- 4) BUS**

**Q.118. When a key is pressed on the keyboard, which standard is used for converting the keystroke into the corresponding bits.?**

**Arora Educator**



- 1) ANSI**
- 2) ASCII**
- 3) EBCDIC**
- 4) ISO**

**Q.119. Default pointing device of a laptop is.?**

**Arora Educator**



- 1) Optical mouse
- 2) Sensitive screen
- 3) Touchpad
- 4) OMR

- ✓ Mouse
- ✓ Trackballs
- ✓ Touchpads
- ✓ Joysticks
- ✓ Light pens

**Q.120. Which is not included as main component of CPU.?**

**Arora Educator**



- 1) Register set**
- 2) ALU**
- 3) Control**
- 4) I/O device**

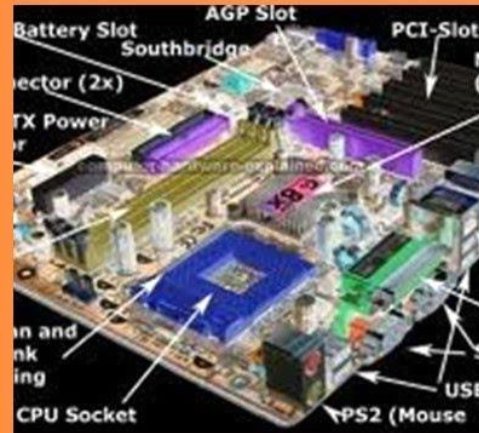


# FUNDAMENTALS & HARDWARE

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## COMPUTER HARDWARE





**Q.120. Which is not included as main component of CPU.?**

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- 1) Register set**
- 2) ALU**
- 3) Control**
- 4) I/O device**

**Q.121. Which of the following was the first Intel processor introduced ?**

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**1) 3080**

**2) 4004**

**3) 8080**

**4) 8086**

**Q.122. In the CPU, what is the functionality of the control unit ?**

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- 1) To decode program instruction**
- 2) To perform logic operations**
- 3) To store program instruction**
- 4) To transfer data to primary storage**

**Q.123. It is the computational center of the CPU.?**

**1) Registers**

**2) ALU**

**3) Flip-Flop**

**4) Multiplexer**

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**Q.124. Architecture of CPU includes. ?**

- 1) RISC**
- 2) CISC**
- 3) Both of these**
- 4) CU, ALU, MU**

**Q.125. Which one of the following rebooting is commonly occurred when the system of a computer is crashed.?**

- 1) Soft rebooting**
- 2) Cold rebooting**
- 3) Hard rebooting**
- 4) Random rebooting**

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**Q.126. Which printer is commonly used for desktop publishing.?**

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- 1) Laser printer**
- 2) Inkjet printer**
- 3) Daisy wheel printer**
- 4) Dot matrix printer**





**Q.127. A CPU consists of.?**

- 1) ALU, Registers and hard disk**
- 2) ALU, Control Unit and Registers**
- 3) ALU and Memory only**
- 4) RAM and ROM only**



**Q.128. The term Computer is derived from..?**

- 1) Latin**
- 2) German**
- 3) French**
- 4) Arabic**

**The word computer comes from Greek/Latin word “compute” “which means to calculate”.**

**Q.129. Name the First digital computer in India was.?**

**Arora Educator**



1) Mark-1

2) TIFRAC

3) UNIVAC

4) PARAM

**Tata Institute of Fundamental  
Research Automatic Calculator**

**Q.130. Which was the first commercial computer.?**

**1) UNIVAC**

**2) ENIAC**

**3) EDSAC**

**4) None of these**

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**Universal Automatic Computer**

**Q.131. It is the most common text-based input device.?**

**1) Keyboard**

**2) Mouse**

**3) Scanner**

**4) Mic**

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**Q.132. Typing speed of Anil is 45 WPM. Full form of WPM is.?**

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- 1) Words parts Minute**
- 2) Words per Minute**
- 3) Words per Master**
- 4) None of the above**

**Q.133. On a computer keyboard, keys 'F' and 'J' are called \_\_\_\_\_ for left and right hand, respectively.?**

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- 1) Corner Keys
- 2) Guide keys
- 3) Sub Keys
- 4) Home Keys





**Q.134. There are \_\_\_\_\_ Shift key on the keyboard.?**

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1) 1

2) 2

3) 3

4) 4



**Q.135. Which of the following are point and draw device.?**

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- 1) Mouse**
- 2) Touch pad**
- 3) Joystick**
- 4) All of the above**

**Q.136. On a numeric keypad, the number \_\_\_\_ is the guide key.?**

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1) 2

2) 5

3) 6

4) 4



**Q.137. Which of the following is a toggle key.?**

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- 1) Caps Lock**
- 2) Num Lock**
- 3) Scroll Lock**
- 4) All of these**

**Q.138. The numeric keypad has how many keys on PC keyboards.?**

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**1) 12**

**2) 15**

**3) 17**

**4) 19**

**Q.139. When \_\_\_\_\_ is turned on, the computer will provide sound cues.?**

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- 1) Toggle Keys**
- 2) Modifier Keys**
- 3) Function keys**
- 4) All of these**

**Q.140. Among these which key is not consider under Toggle Key.?**

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- 1) Caps Lock**
- 2) Num Lock**
- 3) Scroll Lock**
- 4) Function Key**



**Q.141. Which key on a windows keyboard sets to full screen mode in most browsers.?**

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- 1) F1
- 2) F10
- 3) F11**
- 4) F12

**Q.142. Speed of Hard Disk is measured in?** **Arora Educator**



- 1) Hertz
- 2) Mega Bit
- 3) Flops
- 4) RPM

**Q.143. Which type of data cable is not used in Hard Disk?**

**Arora Educator**



**1) PATA**

**2) SATA**

**3) BATA**

**4) SCSI**



**Q.144. Founder of Hard Disk is?**

- 1) Jack Kilby**
- 2) John McCarthy**
- 3) Reynold B. Johnson**
- 4) John Von Neumann**

**Q.145. Among these name the Sequential Access device?**

**Arora Educator**



**1) Magnetic Tape**

**2) Floppy Disk**

**3) Hard Disk**

**4) Pen Drive**

**Q.146. Among these name the Random Access device?**

**Arora Educator**

- 1) CD**
- 2) DVD**
- 3) Hard Disk**
- 4) All of these**



**Q.147. Which Storage device uses Ribbon for data storage?**

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**1) Magnetic Tape**

**2) CD**

**3) DVD**

**4) Hard Disk**



**Q.148. Which of the following is the largest manufacturer of Hard Disk Drives.?**

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- 1) Seagate**
- 2) IBM**
- 3) Microsoft**
- 4) 3M**



**Q.149. What is the normal speed of Hard Disk.?**

**Arora Educator**

- 1) 5400 RPM
- 2) 7200 RPM
- 3) 10000 RPM
- 4) 15000 RPM





**Q.150. Hard Disk is made up of.?**

- 1) Circular Plates**
- 2) Aluminum**
- 3) Magnetic Material**
- 4) All of these**



Q.151. Blank CD is also called as.?

- 1) CD-R Compact Disk-Recordable
- 2) CD-ROM
- 3) CD-WORM
- 4) CD-RW



**Types of CD are -**

- 1) CD-R = Compact Disk-Recordable**
- 2) CD-ROM = CD-Read Only Memory**
- 3) CD-WORM = CD-Write Once Read Many**
- 4) CD-RW = CD-ReWritable**

- 1) Burning = Copy from PC to CD
- 2) Ripping = Copy from CD to PC







# RRB PO MAINS

## 30 JAN 2021





**Q.1. Which of the following is used for Page Break in MS Word.?**

**Ans = Ctrl + Enter**

**Q.2. Bing, own & operated by a Microsoft is a?**

**Ans = Search Engine**



**Q.3. What is the Google equivalent to Microsoft Excel.?**

**Ans = Google Sheets**

**Q.4. Which of the following is used for addition in Microsoft Excel.?**

**Ans = Sum**



**Q.5. To insert a new slide in Current Presentation.?**

**Ans = Ctrl + M**

**Q.6. IP Address is.?**

**Ans = Logical address of computer**



**Q.7. Mobile Network / PAN.?**

**Ans = Bluetooth**

**Q.8. Apple's Word Processor.?**

**Ans = Pages**

**Q.9. Apple's Spreadsheet.?**

**Ans = Numbers**

**Q.10. Apple's Presentation.?**

**Ans = Keynote**



**Q.11. Cloud storage is \_\_\_\_\_memory .?**

**Ans = Non Volatile**

**Q.12. What happens to RAM if system is turned off.?**

**Ans = Data loss permanently**

**Q.13. How does cache acts between CPU & ram.?**

**Ans = Buffer**



**Q.14. Which is business social networking website.?**

**Ans = Linked-in**

**Q.15. Another form of MS excel on mobile which is free.?**

**Ans = Google Sheets**

**Q.16. Open Source Browser.?**

**Ans = Mozilla Firefox**



**Q.17. In Excel N/A Error means.?**

**Ans = no value available**

**Q.18. OSI Model – Encryption done by.?**

**Ans = Presentation layer**

**Q.19. Printer Resolution Measure in.?**

**Ans = DPI**





**Q.20. URL address is also called as .?**

**Ans = Web Address**

**Q.21. Self Replicating Software.?**

**Ans = WORM**

**Q.22. Aarogya Setu app check location with help of .?**

**Ans = GPS**



**Q.23. If you get a Pendrive from employer then what should be the first step after attaching the Pendrive in the official laptop .?**

**Ans = VIRUS Scan**



**Q.24. Name the Microsoft Database Software .?**

**Ans = MS Access**

**Q.25. TCP/UDP – OSI Model Layer.?**

**Ans = Transport layer**

**Q.26. HTML Stands for.?**

**Ans = Hyper Text Markup Language**



**Q.27. Mobile Card for Storage.?**

**Ans = Memory Card**

**Q.28. Who convert Domain Name to IP Address.?**

**Ans = DNS**

**Q.29. Row Select shortcut key in MS Excel.?**

**Ans = Shift + Spacebar**



**Q.30. It is the process of collecting all the scattered files & folders.?**

**Ans = Disk Defragmentation**



**Q.31. What is an internal organizational Internet that is guarded against outside access by a special security feature called a firewall (which can be software, hardware, or a combination of the two).?**

**Ans = Intranet**



**Q.32. Unauthorized use of computer by third party called as.?**

**Ans = Hacking**

**Q.33. Microsoft made a commitment to provide 10 years of product support for Windows 7 when it was released, The specific end of support day for Windows 7 was.?**

**Ans = January 14, 2020**





**Q.34. It is a code inserted by a software program telling the printer where to end the current page and begin the next.?**

**Ans = Page Break**

**Q.35. In this topology each networked device is connected to two others, like points on a circle & uses token.?**

**Ans = Ring Topology**



**Q.36. Which layer of the OSI model, responsible for translation, encryption, authentication, and data compression..?**

**Ans = 6 layer (Presentation Layer)**

**Q.37. For which MS Office product, it is required renewal .?**

**Ans = MS Office 365**



**Q.38. Taking administrative rights .?**

**Ans = Rootkits**

**Q.39. Change IP Address attempt - Called.?**

**Ans = Spoofing**

**Q.40. Website is a collection of.?**

**Ans = HTML Documents**

# RRB PO MAINS

## 25 SEP 2021

Arora Educator





**Q.1. Dividing the disk into tracks & sectors.?**

**Ans = Formatting**

**Q.2. Shortcut key for page break.?**

**Ans = Ctrl + Enter**



**Q.3. Function key for slide show.?**

**Ans = F5**

**Q.4. Which PowerPoint view works best for adding slide transitions.?**

**Ans = Slide Sorter View**



**Q.5. Translator who convert HLL to LLL.?**

**Ans = Compiler**

**Q.6. Which Function is used to calculate Remainder in MS Excel.?**

**Ans = MOD ( )**





**Q.7. Magnetic Disk is cheaper then Magnetic Tape .?**

**Ans = False**

**Q.8. It is a software program designed to record every keystroke on the machine on which it runs.?**

**Ans = Keylogger**



**Q.9. CTRL, Alt & Shift are called.?**

**Ans = Modifier key**

**Q.10. Part of system used to process/load programme.?**

**Ans = Loader**



**Q.11. Total time required to execute any information.?**

**Ans = Access Time**

**Q.12. This type of compact disc can be written only once and can not be erased.?**

**Ans = CD-R**



**Q.13. It a character recognition technology adopted mainly by the banking industry to facilitate the processing of cheques.?**

**Ans = MICR**

**Q.14. Protocol used for sending mail is.?**

**Ans = SMTP**



**Q.15. BIOS stored at.?**

**Ans = ROM/ Flash Memory/ CMOS Chip**

**Q.16. MAC Address is.?**

**Ans = Physical Address, 48 bit**

**Q.17. Cloud Computing**

**Ans = Used for storage**



**Q.18. Among these which not programming language.?**

**BASIC/COBOL/Foxpro/Fortran/C#**

**Ans = Foxpro**

**Q.19. What malware is associated with Bitcoin.?**

**Ans = Cryptojacking**





**Q.20. OSI Model Router Layer.?**

**Network Layer**

**Q.21. FTP responsible for \_\_\_\_\_ & \_\_\_\_\_ of data.?**

**Uploading & Downloading**

**Q.22. IP Address Octet.?**

**4 Octet**

**Q.23. Steganography =**

**the practice of hiding a secret message**

**Q.24. Google Spreadsheet =**

**Google Sheet**





**Q.25. Video Conferencing is \_\_\_\_\_ Mode**  
**Full Duplex Mode**

**Q.26. Business Social Networking Website**  
**LinkedIn**

**Q.27. Microprocessor Generation**  
**Fourth**

**Q.28. Cookies stored in.?**  
**Web Browser**



# RRB CLERK MAINS

20 FEB 2021



**Q.1. 1024 Kibibytes .?**

**Ans = 1 Mebibyte**

**Q.2. IPV - 4 is of how many bit.?**

**Ans = 32 Bit**

**Q.3. IPV - 6 format is in.?**

**Ans = Hexadecimal Format**



**Q.4. Technology used in 3 Generation.?**

**Ans = Integrated Circuit/IC**

**Q.5. Open Source OS .?**

**Ans = Linux OS**

**Q.6. CAD Full Form.?**

**Ans = Computer Aided Design**



**Q.7. EEPROM Stands for.?**

**Ans = Electrically Erasable Programmable  
Read Only Memory**

**Q.8. Mark-up Language .?**

**Ans = HTML**

**Q.9. Touchpad is which type of device.?**

**Ans = Input & Pointing Device**



**Q.10. Pick the media player.?**

**Ans = VLC (Video LAN Client)**

**Q.11. Volatile Memory.?**

**Ans = RAM**

**Q.12. Not System Software .?**

**Ans = MS Excel**



**Q.13. Virus that encrypt files called.?**

**Ans = Ransomware**

**Q.14. Who invented GUI.?**

**Ans = Xerox PARC by Alan Kay**

**PARC = Palo Alto Research Center**

**Q.15. Memory Expansion in Apple.?**

**Ans = Flash Memory**





Q.16.  $1010 + 0101$  .?

Ans = **1111**

**1 0 1 0**  
**0 1 0 1**

**1 1 1 1**

Addition		Result	Carry
0 + 0	=	0	0
0 + 1	=	1	0
1 + 0	=	1	0
1 + 1	=	0	1



**Q.17. Dumb Terminal .?**

**Ans = Keyboard & Screen**

**Q.18. Watermark can be present in.?**

**Ans = Every page**

**Q.19. Hard Disk & CD ROM Connected .?**

**Ans = AT Attachment**

# RRB CLERK MAINS

## 20 FEB 2021

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**Q.17. Dumb Terminal .?**

**Ans = Keyboard & Screen**

**Q.18. Watermark can be present in.?**

**Ans = Every page**

**Q.19. Hard Disk & CD ROM Connected .?**

**Ans = AT Attachment**



**Q.20. Hide IP Address .?**

**Ans = VPN Technology**

**Q.21. MAC Address is used for .?**

**Ans = Ethernet Connection**

**Q.22. Address consist of 2 type address ,  
one is IP address what is another .?**

**Ans = Physical Address**



**Q.23. Windows Oldest Version .?**

**Ans = XP, 2003, 8.1, 10**

**Q.24. URL Developed By .?**

**Ans = Tim Berners Lee**

**Q.25. LAN network is comprised of Logical Network & .?**

**Ans = Physical Address**



**Q.26. Mobile OS .?**

**Ans = Embedded OS**

**Q.27. If a person steal your identity & password called .?**

**Ans = Identity Theft / Phishing**





**Q.28. PDF company name.?**

**Ans = Adobe**

**Q.29. Google Form.?**

**Ans = Survey Software**

**Q.30. Google Hangout.?**

**Ans = Video Call Platform**



**Q.31. Website current history .?**

**Ans = Cookies**

**Q.32. Computer network for sharing information, collaboration tools, operational systems & other computing devices with in an organization.?**

**Ans = Intranet**



**Q.33. Not a property of RAM/ROM.?**

**Ans = Malleable**

**Malleable means – That can be hit or pressed into shape easily without breaking or cracking**



**Q.34. 0 and 1 are the \_\_\_\_\_ input .?**

**Ans = Digital**

**Q.35. Function of MODEM.?**

**Ans = Transmit data over telephone or cable line**

**Q.36. Application Software is which type of software.?**

**Ans = End User Software**



**Q.37. Windows 7 Launch Year .?**

**Ans = 2009 (Support Ended on = 14 January, 2020)**

**Q.38. In first generation, which among these is firstly used – Mouse, Keyboard, Punch card, Transistor.?**

**Ans = Punch Card**



**Q.39. Technology used in smart cards.?**

**Ans = NFC = Near Field Communication**

**Q.40. A foreign key is.?**

**Ans = A column containing the primary key of another table.**

# RRB CLERK MAINS

## 17 OCT 2021





**Q.1. No. of numeric keys on keyboard.?**

**Ans = 17 Keys**

**Q.2. Shortcut key to close window/browser.?**

**Ans = Ctrl + W**

**Q.3. What we call keys which are on top row of keyboard.?**

**Ans = Function keys**



**Q.4. Short cut key to select all data.?**

**Ans = Ctrl + A**

**Q.5. Unix is written in which language.?**

**Ans = C & Assembly Language**

**Q.6. Cache memory is made up of.?**

**Ans = SRAM**



**Q.7.  $1110 + 1111$ ?**

**Ans =  $14 + 15 = 29 = 11101$**

**Q.8. 1 Nibble = how many bits.?**

**Ans = 4 bit**

**Q.8. 1 Nibble = how many bytes.?**

**Ans = 0.5 bytes**

**Q.8. How many Nibble create one bytes.?**

**Ans = 2 Nibble**



**Q.9. Microprocessor Generation.?**

**Ans = 4 generation**

**Q.10. Which is not Utility Software.?**

**Ans = MS Excel/Windows 7**

**Q.11. Which among these is not a browser**

**– Safari/Firefox/Chrome/Yahoo.?**

**Ans = Yahoo**



**Q.12. Track ball is.?**

**Ans = Input Device**

**Q.13. Memory is –  
Infinite/Finite/Uncountable.?**

**Ans = Finite**

**Q.14. Microsoft 365.?**

**Ans = Subscription service**



**Q.15. Key for screenshot.?**

**Ans = PrtScn**

**Q.16. Registers are made up of what.?**

**Ans = Flipflop**

**Q.17. Which one is read and writable –  
CD ROM/DVD RW/CDR.?**

**Ans = DVD RW**





**Q.18. MS Excel Extension.?**

**Ans = .xls**

**Q.19. Bcc stands for.?**

**Ans = Blind Carbon Copy**

**Q.20. Character printer is called.?**

**Ans = Dot Matrix Printer**





**Q.21. Speed of processor.?**

**Ans = Hertz/Clock Rate**

**Q.22. Close a presentation.?**

**Ans = Ctrl + W**

**Q.23. Printer port.?**

**Ans = Parallel Port**



**Q.24. Projector Port.?**

**Ans = HDMI**

**Q.25. Set of rules and instructions.?**

**Ans = Protocol**

**Q.26. Not hardware device – Java/Light Pen  
/CD/keyboard.?**

**Ans = Java**



**Q.27. Software is consist of-  
Programs/Hardware/Binary.?**

**Ans = Programs**

**Q.28. Computer stores data in the form of -  
binary/digital/files/programs.?**

**Ans = Binary Digits**

**Q.29. Light pen uses what - Electron  
Ray/Infrared Ray .?**

**Ans = Electron Ray**



**Q.30. Shareware.?**

**Ans = Free at trial basis**

**Q.31. IPV-4 Address developed by.?**

**Ans = DARPA**

**Q.32. Unsolicited E-mail.?**

**Ans = SPAM**

**Q.33. Shortcut key for case change in ms word .?**

**Ans = Shift + F3**

**Q.34. Intranet definition.?**

**Ans = ??**



**Q.35. Which is not OS – Linux/Windows/macOS/oracle.?**

**Ans = Oracle**

**Q.36. Ctrl + 0.?**

**Ans = Hide Column in Excel**

**Q.37. Dropcap Maximum lines.?**

**Ans = 10**

**Q.38. Education website domain name.?**

**Ans = .edu**



**Q.39. Shortcut for hyperlink.?**

**Ans = Ctrl + K**

**Q.40. Single User Single tasking OS.?**

**Ans = MS DOS**

# Mock Test

## Most Expected Questions





**Q.301. IPV-6 is of how many bits.?**

**1) 32 bits**

**2) 48 bits**

**3) 64 bits**

**4) 128 bits**

**5) 16 bits**

**Q.302. Which of the following is an Open Source DBMS?**

**1) MySQL**

**2) Microsoft SQL Server**

**3) Microsoft Access**

**4) Oracle**

**5) All of these**

**Arora Educator**



**Q.303. A key which helps to connect data in one secondary table to that in a primary table is called?**

- 1) Primary key**
- 2) Foreign key**
- 3) Unique**
- 4) None of these**
- 5) All of these**

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**Q.304. By default Zoom percentage in MS PowerPoint is.?**

**Arora Educator**



**1) 100**

**2) 200**

**3) 300**

**4) 400**

**5) 500**

**Q.305. Which of the following components displays the contents of active cell.?**

**Arora Educator**



- 1) Name box
- 2) Formula bar
- 3) Menu bar
- 4) Status bar
- 5) Worksheet

**Q.306. Which file starts MS Word.?**

**Arora Educator**



- 1) Word.exe**
- 2) Msword.exe**
- 3) Word2003.exe**
- 4) Winword.exe**
- 5) None of these**

**Q.307. Which displays the grammatical error in a document .?**

**Arora Educator**



- 1) Green Line**
- 2) Blue Line**
- 3) Black Line**
- 4) Red Line**
- 5) Black Line**



**Q.308. Name the Microsoft voice assistant.?**

- 1) Microsoft Assistant**
- 2) Siri**
- 3) Cortana**
- 4) My Assistant**
- 5) Big Sur**

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## Q.309. Apple Laptop called.?

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- 1) MacPro
- 2) MacScratch
- 3) MacLapy
- 4) MacBook
- 5) iBook

**Q.310. Name the first ISP of India.?**

**Arora Educator**



- 1) BSNL**
- 2) Idea**
- 3) Reliance**
- 4) VSNL**
- 5) None of these**



**Q.311. Which protocol does Ping use.?**

- 1) TCP**
- 2) ARP**
- 3) ICMP**
- 4) BootP**
- 5) None of these**

**Q.312. What is the overall term for creating, editing, formatting, storing, retrieving, and printing a text document.?**

**Arora Educator**



- 1) Word processing**
- 2) Spreadsheet design**
- 3) Web design**
- 4) Database management**
- 5) Presentation generation**

**Q.313. A set of rules for telling the computer what operations to perform is called a.?**

**Arora Educator**



- 1) procedural language**
- 2) structures**
- 3) natural language**
- 4) command language**
- 5) programming language**

**Q.314. A program, either talk or music, that is made available in digital format for automatic download over the Internet is called a.?**

**Arora Educator**



- 1) wiki**
- 2) broadcast**
- 3) vodcast**
- 4) blog**
- 5) podcast**



**Q.315. What is the name given to those applications that combine text, sound, graphics, motion video, and/ or animation .?**

**Arora Educator**



- 1) Motionware**
- 2) Graphics**
- 3) Infographics**
- 4) Multimedia**
- 5) Broadcast**

**Q.316. What refers to a set of characters of a particular design .?**

**Arora Educator**



- 1) keyface**
- 2) formation**
- 3) calligraph**
- 4) stencil**
- 5) typeface**

**Q.317. A(n) \_\_\_\_\_ allows you to access your e-mail from anywhere.?**

**Arora Educator**



- 1) Forum**
- 2) Webmail interface**
- 3) Message Board**
- 4) Weblog**
- 5) None of these**

**Q.318. It is a technique that is used to send more than one call over a single line.?**

**Arora Educator**



- 1) Digital transmission**
- 2) Infrared transmission**
- 3) Digitizing**
- 4) Streaming**
- 5) Multiplexing**

**Q.319. A mistake in an algorithm that causes incorrect results is called a .?**

**Arora Educator**



- 1) logical error**
- 2) syntax error**
- 3) procedural error**
- 4) compiler error**
- 5) machine error**

**Q.320. It is a technique that makes the RAM appear larger than it is .?**

**Arora Educator**



- 1) Byte Mapping**
- 2) Preemptive Multitasking**
- 3) ROM**
- 4) RAM**
- 5) Virtual Memory**

**Q.321. When the text automatically goes onto the next line that is called.?**

**Arora Educator**



- 1) Text wrap**
- 2) Page wrap**
- 3) Wrap word**
- 4) Word wrap**
- 5) None of these**



**Q.322. Which ports connect special types of music instruments to sound cards.?**

**Arora Educator**



**Musical Instrument Digital Interface**

**1) BUS**

**2) CPU**

**3) USB**

**4) MIDI**

**5) SCSI**

**Q.323. Which is the first automatic electronic digital computer.?**

**Arora Educator**

**Atanasoff – Berry Computer**



- 1) ENIAC**
- 2) MARK I**
- 3) Z3**
- 4) ABC**
- 5) PARAM**

**Q.324. The scrambling of code is known as.?**

**Arora Educator**



- 1) Encryption**
- 2) Firewall**
- 3) Phishing**
- 4) Spooling**
- 5) All of these**

**Q.325. Software that you can use free of charge for a set period. After that you have to buy it to keep working is known as.?**

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- 1) Freeware**
- 2) Shareware**
- 3) Spyware**
- 4) Annoyware**
- 5) Open Source**

**Q.326. A type of virus (malicious code) that looks for security loopholes in a system and uses that to replicate itself is known as.?**

**Arora Educator**



- 1) Worm**
- 2) Threat**
- 3) Trojan Horse**
- 4) Phishing**
- 5) Ransomware**

**Q.327. Software that monitors your online computer activities is known as.?**

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- 1) Malware
- 2) Spyware
- 3) Freeware
- 4) Firmware
- 5) WORM

**Q.328. Which type of computers uses the 8-bit code called EBCDIC.?**

**Arora Educator**



- 1) Minicomputers
- 2) Microcomputers
- 3) Mainframe computers
- 4) All of these
- 5) None of these

**extended binary-coded decimal interchange code**



**Q.329. A set of flip flops integrated together is called.?**

**Arora Educator**



- 1) Latch
- 2) Register
- 3) Cache
- 4) RAM
- 5) ROM

**Q.330. The difference between memory and storage is that memory is and storage is.?**

**Arora Educator**



- 1) Temporary, permanent**
- 2) Permanent, temporary**
- 3) Slow, fast**
- 4) All of these**
- 5) None of these**

**Q.331. The programs which are as permanent as hardware and stored in ROM is known as.?**

**Arora Educator**



- 1) Hardware**
- 2) Software**
- 3) Firmware**
- 4) Adware**
- 5) Spyware**

**Q.332. Which of the following memories must be refreshed many times per second.?**

**Arora Educator**



- 1) Static RAM**
- 2) Dynamic RAM**
- 3) EPROM**
- 4) ROM**
- 5) All of these**

**Q.333. Which is an open source development environment to develop dynamic web pages.?**

**Arora Educator**



- 1) PHP**
- 2) XML**
- 3) VB Script**
- 4) All of these**
- 5) None of these**

**Q.334. A code that represents English characters as numbers and ranging from 0 to 127.?**

- 1) ASCII**
- 2) EBCDIC**
- 3) BCD**
- 4) ANSI**
- 5) All of these**

**Arora Educator**



**Q.335. An email feature, which is used to send a copy of an email to one or many other people at the same time that you are sending it to the main recipient/s is called.?**

**Arora Educator**



- 1) CC**
- 2) BCC**
- 3) To**
- 4) All of these**
- 5) None of these**



**Q.336. ATM machines run \_\_\_\_\_ OS.?**

**Arora Educator**



- 1) Open Source**
- 2) Closed Source**
- 3) Embedded**
- 4) Shareware**
- 5) All of these**

**Q.337. NIC stands for.?**

**Arora Educator**



- 1) Network Internal Card**
- 2) Network Interconnection Channel**
- 3) Network Interface Card**
- 4) All of these**
- 5) None of these**

**Q.338. The creation of Internet Protocol (IP) packets with a forged source IP address, with the purpose of concealing the identity of the sender or impersonating another computing system is called.?**

**Arora Educator**



- 1) Pharming**
- 2) Spoofing**
- 3) Sniffing**
- 4) Phishing**
- 5) Trojan Horse**

**Q.339. Ethical hackers who use their skill to secure the integrity of computer systems or networks is called.?**

- 1) Black Hat**
- 2) White Hat**
- 3) Green Hat**
- 4) All of these**
- 5) None of these**

**Arora Educator**



**Q.340. The most widely used type of database management system is the.?**

**Arora Educator**



- 1) Flat database**
- 2) Network database**
- 3) Relational database**
- 4) Hierarchical database**
- 5) All of these**

**Q.341. What is considered as the 'backbone' of the World Wide Web.?**

**Arora Educator**



- 1) URL**
- 2) HTML**
- 3) HTTP**
- 4) SSL**
- 5) FTP**

**Q.342. A device that regenerates the signal transmitted on a cable in a network is called.?**

**Arora Educator**



**1) Repeater**

**2) Router**

**3) Bridge**

**4) Switch**

**5) Gateway**



**Q.343. An intelligent Hub that has the ability to determine the destination of a packet sent across the network is called.?**

**Arora Educator**



**1) Repeater**

**2) Switch**

**3) Bridge**

**4) Gateway**

**5) Router**

**Q.344. It is required at each end to absorb the signal so that it does not reflect back across the bus.?**

**Arora Educator**



- 1) Gateway**
- 2) Terminator**
- 3) Bridge**
- 4) Router**
- 5) Switch**

**Q.345. Layer which translates data format & deals with compression of data and network security is known as.?**

**1) Presentation Layer**

**2) Application Layer**

**3) Session Layer**

**4) Data Link Layer**

**5) Physical Layer**

**Arora Educator**



**Q.346. What translates IP address into MAC address.?**

**1) Logical Address**

**2) Address Resolution Protocol**

**3) Network Interface Card**

**4) Burned In Address**

**5) Physical Address**

**Arora Educator**



**Q.347. The physical address to each machine is provided by which layer in an OSI reference model.?** **Arora Educator**



- 1) Physical layer
- 2) Data Link Layer
- 3) Network Layer
- 4) Transport Layer
- 5) None of these

**Q.348. Which of the following features in MS Excel lets you record a sequence of keystrokes and play them again when required.?**

**Arora Educator**



**1) Format Painter**

**2) Macro**

**3) Pivot Table**

**4) Wrap Text**

**5) All of these**



**Q.349. Which of the following is a Microsoft anti-malware that provides real time protection against Viruses, malware & spyware.?**

**Arora Educator**



- 1) Defender**
- 2) Kaspersky**
- 3) Outlook**
- 4) McAfee**
- 5) All of these**



**Q.350. What is a small piece of text data sent by a web server and stored on the client computer by the web browser.?**

**Arora Educator**



**1) Trojan Horse**

**2) Cookies**

**3) HTML Page**

**4) URL**

**5) Website**

**Q.351. Which of the following IPV-4 address series is reserved by IANA for Private use.?**

**Arora Educator**



**1) 72.68.0.0**

**2) 192.168.0.0**

**3) 16.24.0.0**

**4) 177.94.0.0**

**5) None of these**

- **Class A** — 10.0.0.0 — 10.255.255.255

- **Class B** — 172.16.0.0 — 172.31.255.255

- **Class C** — 192.168.0.0 — 192.168.255.255

**Q.352. Which of the following is layer 1 Networking device.?**

**Arora Educator**



**1) Firewall**

**2) Hub**

**3) Switch**

**4) Router**

**5) Modem**

**Q.353. Ubuntu, Gentoo, CentOS are the popular distribution of \_\_\_\_\_ operating system.? Arora Educator**

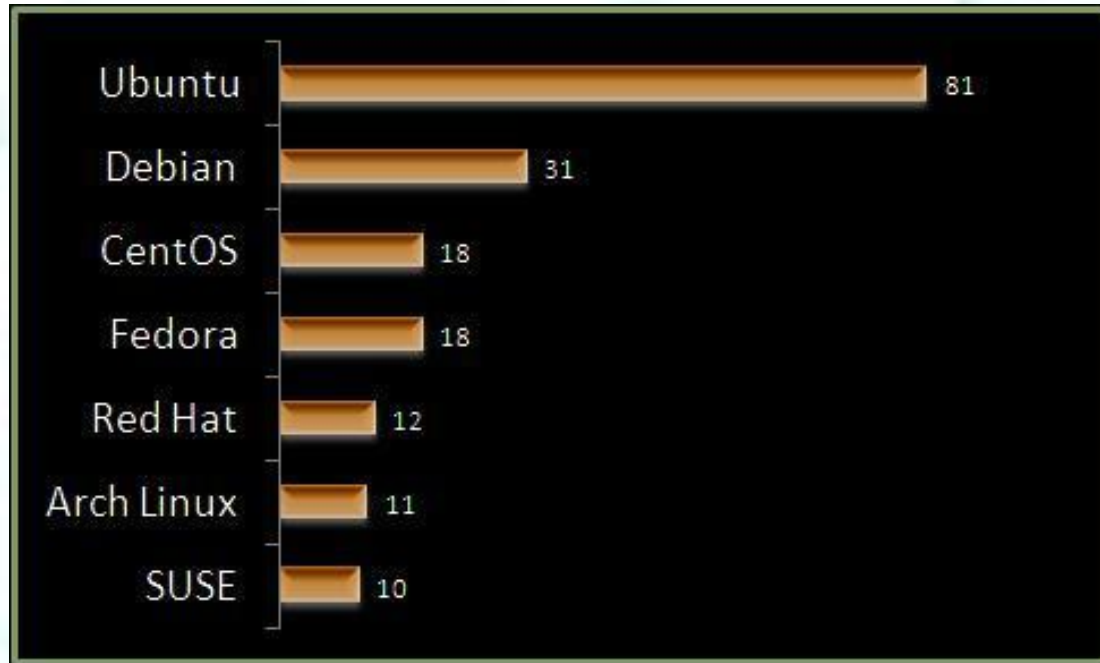
**1) Linux**

**2) Mac**

**3) Android**

**4) Windows**

**5) All of these**



# Q.354. Bold, Italic, Regular are known as.?

- 1) Font Style
- 2) Font Effect
- 3) Word Art
- 4) Text Effect
- 5) All of these



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# Q.355. Superscript, Subscript, Outline, Emboss, Engrave are known as.?

Arora Educator



- 1) Font Style
- 2) Font Effect
- 3) Word Art
- 4) Text Effect
- 5) All of these





**Q.356. It is the best alternative to MS Excel offered by Google Inc.?**

**Arora Educator**



**1) Google Slides**

**2) Google Sheets**

**3) Google Files**

**4) Google Keep**

**5) All of these**



**Q.357. How do you display current date only in MS Excel.?**

**Arora Educator**



**NOW () – returns the current date and time**

**1) Date ()**

**2) Today ()**

**3) Now ()**

**4) Time ()**

**5) All of these**

**Q.358. What does COUNTA () function do.?**

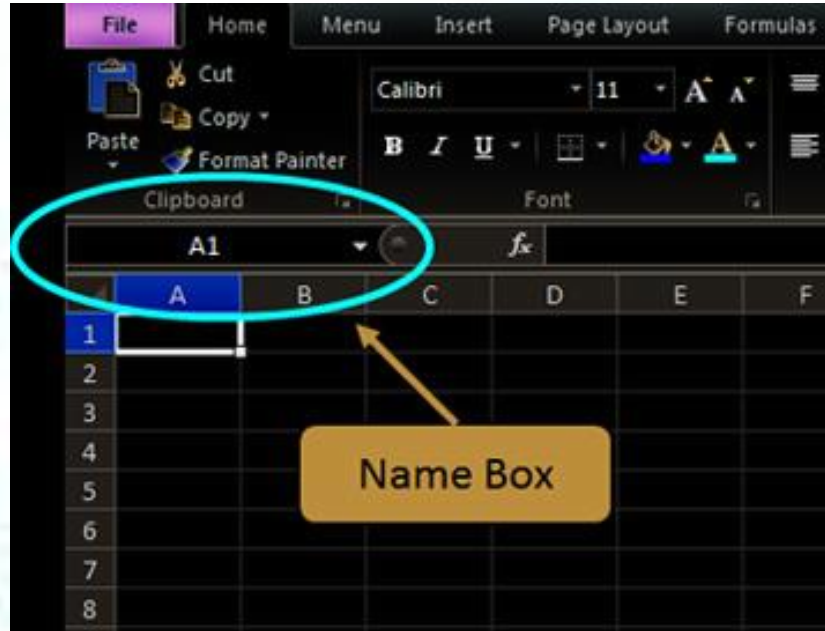
**Arora Educator**



- 1) Counts cells having alphabets**
- 2) Counts empty cells**
- 3) Counts cells having number**
- 4) Counts non-empty cells**
- 5) None of these**

**Q.359. Excel displays the current cell address in the.?**

- 1) Formula bar**
- 2) Status Bar**
- 3) Name Box**
- 4) Title Bar**
- 5) All of these**



**Arora Educator**



**Q.360. Which of the following is an absolute cell reference.?**

**Arora Educator**



1) !A!1

2) \$A\$1

3) #a#1

4) A1

5) None of these

Absolute Reference in Excel					
=E35*\$E\$33					
	B	C	D	E	F
			GST	10%	
Item	Item	Quantity	Price (Rs.)	Total Price	Total Price with GST
acks	Marie Gold Biscuits	5	40	200	=E35*\$E\$33
acks	Monaco Biscuits	3	30	90	9
acks	Oreo Biscuits	4	50	200	20
acks	Navratna Mixture	4	75	300	30
acks	Chips	5	25	125	12.5
verages	Nestle Cold Coffee	10	45	450	45
verages	Pepsi	3	65	195	19.5
verages	Limca	3	66	198	19.8
verages	Frooti	4	70	280	28

**Q.361. Which of the following sequence that a microprocessor follows.?**

**Arora Educator**



- 1) Fetch, decode, execute**
- 2) Fetch, execute, decode**
- 3) Decode, fetch, execute**
- 4) Execute, decode, fetch**
- 5) None of these**



## **Q.362. ASCII stands for.?**

- 1) American standard code for information interchange**
- 2) Alphabet standard code for information interchange**
- 3) American standard code for interchange information**
- 4) None of these**
- 5) All of these**





**Q.363. The generation based on VLSI microprocessor.?**

- 1) 1st
- 2) 2nd
- 3) 3rd
- 4) 4th**
- 5) 5th



**Q.364. In this generation Time sharing, Real time, Networks, Distributed Operating System was used.?**

- 1) 1st
- 2) 2nd
- 3) 3rd
- 4) 4th
- 5) 5th

**Arora Educator**



**Q.365. The decimal representation for the character ‘!’ in ASCII is.?**

**Arora Educator**



1) 31

2) 32

3) 33

4) 34

5) None of these

**33 = ! = exclamation point**

**34 = " = double quotation**

**35 = # = number sign**

**36 = \$ = dollar sign**

**Q.366. Which of the following isn't a characteristic of High level languages.?**

**Arora Educator**



- 1) machine code**
- 2) platform independent**
- 3) interactive execution**
- 4) user-friendly**
- 5) None of these**



**Q.367. Name the Universal Gate.?**

**1) NAND**

**2) OR**

**3) NOT**

**4) XOR**

**5) None of these**

**Universal Gate**

✓ **Nand**

✓ **Nor**

**Q.368. In 1999, the Melissa virus was a widely publicized.?**

**Arora Educator**



- 1) E-mail virus**
- 2) Macro virus**
- 3) Trojan horse**
- 4) Time bomb**
- 5) All of these**

**Q.369. Once installed, which collection of software tools is used to gain remote access to and control over a computer or system.?**

**Arora Educator**



**1) Rootkit**

**2) Penetration Test**

**3) Virus**

**4) Logic Bomb**

**5) All of these**

**Q.370. Which of the following is READ - only disc.?**

**Arora Educator**



- 1) DVD-R
- 2) DVD-ROM**
- 3) DVD-RW
- 4) CD-R
- 5) None of these



**Q.371. Name the Apple's Spreadsheet software .?**

**Arora Educator**



- 1) Figures**
- 2) Lotus-123**
- 3) VisiCalc**
- 4) Google Spreadsheet**
- 5) Numbers**

**Q.372. Which one of the following is Cloud Platform by Microsoft.?**

**Arora Educator**



- 1) Azure**
- 2) AWS**
- 3) Cloudera**
- 4) All of these**
- 5) None of these**



**Q.373. Ethernet uses.?**

- 1) Bus Topology**
- 2) Star Topology**
- 3) Ring Topology**
- 4) Tree Topology**
- 5) Mesh Topology**

**Q.374. Laser printer is invented by .?** **Arora Educator**



**1) Intel**

**2) Xerox**

**3) Sony**

**4) HP**

**5) None of these**

# Q.375. Name the Internetworking device.?

Arora Educator



- 1) HUB
- 2) BRIDGE
- 3) ROUTER
- 4) SWITCH
- 5) GATEWAY

# Q.376. Name the founder of Android OS.?

Arora Educator



- 1) Andy Rubin
- 2) Nick Sears
- 3) Rich Miner
- 4) All of these
- 5) None of these

**Q.377. Which of the following is a basic network topology.?**

**Arora Educator**



- 1) Star**
- 2) Mesh**
- 3) Ring**
- 4) All of these**
- 5) None of these**



**Q.378 - COUNT(1,2,3) return.?**

**Arora Educator**



**1) 6**

**2) 5**

**3) 3**

**4) 1**

**5) None of these**

**Q.379 - COUNT(1,"a","b") return.?**

**Arora Educator**



**1) 1**

**2) a**

**3) b**

**4) 3**

**5) None of these**

**Q.380. Which of the following statements is/are true.?**

**(i) Hard disk is considered as primary memory.**

**(ii) ROM is a permanent storage.**

**Arora Educator**



**1) Neither (i) nor (ii)**

**2) Only (i)**

**3) Only (ii)**

**4) Both (i) and (ii)**

**Q.381. Which of the following statements is/are true?**

**(i) Hardware refers to logical components of a computer system.**

**(ii) Google Chrome is an example of computer hardware..?**

**1) Both (i) and (ii)**

**2) Only (i)**

**3) Only (ii)**

**4) Neither (i) nor (ii)**

**Arora Educator**



**Q.382. Which of the following is NOT a high-level language.?**

**Arora Educator**



1) Java

2) C

3) C++

4) Machine code

5) C#

**Q.383. Which of the following mobile operating systems was developed by NOKIA?**

**Arora Educator**



- (i) Bada,**
- (ii) Android**

- 1) Only (ii)**
- 2) Only (i)**
- 3) Both (i) and (ii)**
- 4) Neither (i) nor (ii)**

**Q.384. Which of the following statements about PROM is true?**

**Arora Educator**



- (i) It is a sequential access memory.**
- (ii) It is a magnetic memory.**
- (iii) It is a non-volatile memory.?**

**1) (ii) and (iii)**

**2) Only (iii)**

**3) Only (ii)**

**4) (i) and (iii)**



**Q.385. Which of the following keyboard shortcuts in MS-Word 2016 can be used to underline text with double lines?**

**1) Ctrl + Shift + D**

**2) Alt + Shift + U**

**3) Alt + Shift + D**

**4) Ctrl + Shift + U**

**5) None of these**

**Arora Educator**



**Q.386. Obtain 1's Complement of  $(101000)_2$  .?**

**Arora Educator**



- 1) 1 0 1 0 10
- 2) 1 1 1 1 1 1
- 3) 0 0 0 0 0 0
- 4) 0 1 0 1 1 1
- 5) None of these

**Q.387. It a mobile setting that switches off your phone's connection to cellular and Wi-Fi networks.?**

**Arora Educator**

- 1) VPN**
- 2) Kernel Mode**
- 3) Encryption Mode**
- 4) Airplane Mode**
- 5) None of these**





**Q.388. Name the first Personal Computer.?**

**1) ENIAC**

**2) Altair**

**3) Cray-1**

**4) Param Padma**

**5) None of these**



**Q.389. Floppy Disk was invented by.?**

- 1) Alan Turing**
- 2) Alan Smith**
- 3) Alan Shugart**
- 4) Tim Berners Lee**
- 5) Charles Babbage**

**Q.390. To change line height to 1.5 we use shortcut key.?**

**Arora Educator**



**1) Ctrl + 1**

**2) Ctrl + 5**

**3) Ctrl + 3**

**4) Ctrl + 2**

**5) None of these**

**Q.391. A set of flip flops integrated together is called.?**

**Arora Educator**



**1) Register**

**2) Latch**

**3) Cache**

**4) RAM**

**5) ROM**



**Q.392. Which shortcut key in MS Word 2019 is used to Toggle the case of letters among uppercase, lowercase and sentence case.?**

**Arora Educator**



**1) Shift + F3**

**2) Alt + F5**

**3) Ctrl + F6**

**4) Ins + F9**

**5) None of these**

**Q.393. Which shortcut key in MS Word 2019 is used to Remove paragraph formatting.?**

**Arora Educator**



- 1) Ctrl + R**
- 2) Ctrl + P**
- 3) Ctrl + D**
- 4) Ctrl + Q**
- 5) None of these**

**Q.394. Which shortcut key in MS Word 2019 is used to Indent a paragraph.?**

**Arora Educator**



- 1) Ctrl + I
- 2) Ctrl + K
- 3) Ctrl + M**
- 4) Ctrl + J
- 5) None of these

**Q.395. Which function key in MS Excel 2019 is used to Switch between the worksheet, the Ribbon, the task pane and Zoom controls.?**

**Arora Educator**



**1) F2**

**2) F3**

**3) F4**

**4) F6**

**5) None of these**

**Q.397. Which shortcut key in MS Excel 2019 is used to Select a row.?**

**Arora Educator**



- 1) Ctrl + Spacebar
- 2) Shift + Spacebar
- 3) Ctrl + Shift + Spacebar
- 4) Ctrl + Shift + Home
- 5) None of these

**Q.398. Which shortcut key in MS Excel 2019 is used to Insert the current time.?**

**Arora Educator**



- 1) Ctrl + Shift + ;**
- 2) Ctrl + ;**
- 3) Ctrl + Shift + T**
- 4) Ctrl + F8**
- 5) All of these**

**Q.399. Which shortcut key in MS Excel 2019 is used to hide the selected row.?**

**Arora Educator**



- 1) Ctrl + 1
- 2) Ctrl + 5
- 3) Ctrl + 9
- 4) Ctrl + 0
- 5) None of these



**Q.400. Which shortcut key in MS Excel 2019 is used to hide the selected column.?**

**Arora Educator**



**1) Ctrl + 1**

**2) Ctrl + 5**

**3) Ctrl + 9**

**4) Ctrl + 0**

**5) None of these**



# Mock Test

## Most Expected Questions



**Q.501. Broadcast address is given by.?**

- 1) 0.0.0.0**
- 2) 127.x.x.x**
- 3) 255.255.255.255**
- 4) All of these**
- 5) None of these**

**Q.502. A device that connects networks with different protocols.?**

**Arora Educator**



- 1) Switch**
- 2) Hub**
- 3) Gateway**
- 4) Modem**
- 5) Router**

**Q.503. Name the language supported by MS. Net platform .?**

**Arora Educator**



**1) C**

**2) C++**

**3) java**

**4) C#**

**5) None of these**

**Q.504. Which language is used to create macros in Excel .?**

**Arora Educator**



- 1) Java Script**
- 2) C++**
- 3) C**
- 4) Visual Basic**
- 5) All of these**

**Q.505. Which language required both compiler & interpreter.?**

**Arora Educator**



**1) JAVA**

**2) C**

**3) C++**

**4) Python**

**5) None of these**





**Q.506. WPA2 is used for security in .?**

- 1) Ethernet**
- 2) Bluetooth**
- 3) Wi-fi**
- 4) None of the above**
- 5) Router**

**Q.507. DPI stands for Dots Per Inch, which indicates the?**

**Arora Educator**



- 1) resolution of images**
- 2) location of images**
- 3) size of images**
- 4) compression of images**
- 5) All of these**

**Q.508. The IEEE 802.11 standard is a for?** **Arora Educator**



**1) PAN**

**2) SAN**

**3) WI-FI**

**4) CAN**

**5) Li-Fi**

**Q.509. It is a Window utility program that locates and eliminates unnecessary fragments and rearranges files and unused disk space to optimize operations.? [Arora Educator](#)**

**1) Disk Defragmenter**

**2) Restore**

**3) Disk Cleanup**

**4) Backup**

**5) All of these**



**Q.510. File \_\_\_\_ shrinks the size of a file so it requires less storage space.?**

**Arora Educator**



- 1) Compression**
- 2) Defragmenting**
- 3) Synthesizing**
- 4) Scanning**
- 5) All of these**

**Q.511. Help Menu is available at which button.?**

**Arora Educator**



- 1) Restart**
- 2) Turnoff**
- 3) Start**
- 4) End**
- 5) All of these**

**Q.512. Which one is a 'text editor' for Microsoft Windows.?**

**Arora Educator**



- 1) MS Word**
- 2) MS Excel**
- 3) WordPad**
- 4) Notepad**
- 5) All of these**



**Q.513. Which one is the default 'Word Processor' for Microsoft Windows.?**

**Arora Educator**



- 1) MS Word**
- 2) MS Paint**
- 3) WordPad**
- 4) Notepad**
- 5) None of these**

**Q.514. What is the maximum size of a word document created.?**

**Arora Educator**



- 1) 1 MB
- 2) 32 MB
- 3) 16 MB
- 4) 64 KB
- 5) 32 KB

**Q.515. What is the maximum number of Primary Partitions that can be created on a Hard-disk.?**

**Arora Educator**



- 1) 1 Partition**
- 2) 2 Partition**
- 3) 3 Partition**
- 4) 4 Partition**
- 5) 5 Partition**

**Q.516. Which key combination is used to minimize all open windows and displays in the screen.? [Arora Educator](#)**



- 1) Alt + M
- 2) Shift + M
- 3) Windows Key + D**
- 4) CTRL + D
- 5) None of these

**Q.517. Which function key needs to be press during reboot to enter in Safe Mode of a Windows machine.?**

**1) F8**

**2) F2**

**3) F1**

**4) F9**

**5) F5**

**Arora Educator**



**Q.518. \_\_\_\_\_ and \_\_\_\_\_ keys are used with the combination of other key for shortcut and other special functions.?**

**Arora Educator**



- 1) Ctrl, Alt**
- 2) Function, Toggle**
- 3) Delete, Insert**
- 4) Caps lock, Num lock**
- 5) None of these**

**Q.519. Date and Time are available on the desktop at .?**

**Arora Educator**



- 1) Keyboard**
- 2) Recycle bin**
- 3) My computer**
- 4) Task bar**
- 5) None of these**



**Q.520. It is when the more power-hungry components, such as the monitor and the hard drive are put in idle.?**

**Arora Educator**



- 1) Hibernation**
- 2) Power down**
- 3) Stand by mode**
- 4) The shutdown procedure**
- 5) None of these**

**Q.521. Which of the following menu types is also called a drop-down menu.?**

**Arora Educator**



- 1) fly-out
- 2) cascading
- 3) pop-up
- 4) pull-down
- 5) None of these

**Q.522. Most application software today comes with an interface called a(n).?**

**Arora Educator**



- 1) graphical user interface**
- 2) character user interface**
- 3) icon user interface**
- 4) button user interface**
- 5) None of these**

**Q.523. It consists of volatile chips that temporarily store data or instructions.?**

**Arora Educator**



**1) RAM**

**2) RMA**

**3) ROM**

**4) CPU**

**5) CMOS**

**Q.524. An operating system that can do multitasking means that.?**

**Arora Educator**



- 1) The OS can divide up work between several CPUs.
- 2) Several programs can be operated concurrently
- 3) Multiple people can use the computer concurrently
- 4) All of these
- 5) None of these

**Q.525. Network interface card (NIC) is generally used for.?**

**Arora Educator**



- 1) Printing**
- 2) Deleting**
- 3) Connectivity**
- 4) Programming**
- 5) All of these**

**Q.526. Which of the following option is an example of a real-time operating system.?**

**Arora Educator**



- 1) MAC OS**
- 2) MS-DOS**
- 3) Process Control**
- 4) Windows OS**
- 5) All of these**



**Q.527. The multi-user Operating System is based on the concept of.?**

**Arora Educator**



- 1) Time-losing
- 2) Time-gaining
- 3) Time-sharing
- 4) Time-spooling
- 5) None of these

**Q.528. Name the latest major version of the Windows NT operating system developed by Microsoft.?**

**Arora Educator**



- 1) Windows NTOS**
- 2) Windows 10**
- 3) Windows 12**
- 4) Windows 11**
- 5) None of these**

**Q.529. Your PC should have at least \_\_\_\_\_ of RAM to be able to run Windows 11.?**

**Arora Educator**



**1) 2 GB**

**2) 4 GB**

**3) 8 GB**

**4) 1 GB**

**5) Any of the above**

## Q.530. Pick the wrong statement about Windows 11.?

Arora Educator



- 1) Ability to download and run Android apps on your Windows
- 2) Mac-like in design
- 3) Access widgets directly from the Taskbar
- 4) Microsoft Teams integration
- 5) All are the features



**Q.531. Windows 11 announced on dated.?**

- 1) 24 June 2021**
- 2) 24 May 2021**
- 3) 24 January 2021**
- 4) 24 March 2021**
- 5) None of these**

**Initial release date = 5 October 2021**

**Q.532. Which shortcut key is used in MS Word 2019 in insert the Hyperlink.?**

**Arora Educator**



**1) Ctrl + H**

**2) Ctrl + L**

**3) Ctrl + Y**

**4) Ctrl + K**

**5) None of these**

**Q.533. Which function key is used in MS Excel 2019 for Spell check the active worksheet or selected range.?**

**Arora Educator**



1) F4

2) F5

3) F6

4) F7

5) None of these



**Q.534. Which shortcut key is used in MS Excel 2019 to Select a column.?**

**Arora Educator**



- 1) Shift + Spacebar
- 2) Ctrl + Spacebar
- 3) Ctrl + Shift + ;
- 4) Shift + ;
- 5) Ctrl + Shift + ;

**Q.535. Among these name the E-mail client.?**

**Arora Educator**



**1) Gmail**

**2) Yahoo**

**3) MS Outlook**

**4) AOL**

**5) All of these**

✓ **MS Outlook**

✓ **Mozilla Thunderbird**

✓ **Apple Mail**

**Q.536. Which protocol is not used in E-mail.?**

**Arora Educator**



- 1) SMTP**
- 2) POP3**
- 3) IMAP**
- 4) UDP**
- 5) All of these**

**Q.537. Keyboard & Monitor comes under which mode of transmission.?**

**Arora Educator**



- 1) Simplex**
- 2) Half Duplex**
- 3) Full Duplex**
- 4) All of these**
- 5) None of these**

**Q.538. All the tags/keywords used in html are written inside.?**

**Arora Educator**



1) " "

2) < >

3) [ ]

4) { }

5) None of these



**Q.539. Internet works on.?**

- 1) Packet Switching**
- 2) Circuit Switching**
- 3) Character Switching**
- 4) All of these**
- 5) None of these**



**Q.560. Name the First VIRUS.?**

- 1) Creeper**
- 2) Reaper**
- 3) Brain**
- 4) Trojan Horse**
- 5) Ransomware**



**Q.561. The virus that spread in application software is called as.?**

**Arora Educator**



- 1) Boot virus
- 2) Macro virus
- 3) File virus
- 4) Anti virus
- 5) All of these

**Q.562. Name the self replicating software.?**

**Arora Educator**



**1) VIRUS**

**2) WORM**

**3) Antivirus**

**4) Brain**

**5) Ransomware**

**Q.563. Name the first high level language.?**

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- 1) C**
- 2) C++**
- 3) Java**
- 4) COBOL**
- 5) FORTRAN**

**Q.564. First Generation programming language is also called as.?**

**Arora Educator**



- 1) Machine Language**
- 2) Binary Language**
- 3) Both of these**
- 4) Assembly Language**
- 5) 1, 2 & 4**

**Q.565. Microsoft has announced that Windows 11 is going to be available for new machines starting.?**

- 1) October 5, 2021**
- 2) November 5, 2021**
- 3) December 5, 2021**
- 4) January 1, 2022**
- 5) None of these**



**Arora Educator**



**Q.566. In Which year Microsoft released Windows 10.?**

**Arora Educator**



**1) 2010**

**2) 2011**

**3) 2013**

**4) 2015**

**5) 2018**



**Q.567. Which key on keyboard of a computer does not have its name printed on the key.?**

**Arora Educator**



- 1) ESC**
- 2) SHIFT**
- 3) F1**
- 4) SPACE**
- 5) None of these**



**Q.568. What does a light pen contain.?**

**Arora Educator**



- 1) Refillable ink**
- 2) Light sensitive elements**
- 3) Pencil lead**
- 4) Blue Ink**
- 5) None of these**

**Q.569. What are the individual dots which make up a picture on the monitor screen called.?**

**Arora Educator**



- 1) Colored spots**
- 2) Pixies**
- 3) Pixels**
- 4) Resolution**
- 5) All of these**



**Q.570. A laser printer does NOT use.?**

- 1) A photo-conductive drum**
- 2) A print head**
- 3) A laser beam**
- 4) Toner**
- 5) None of these**

**Q.571. A collection of interrelated file in computer is a.?**

**Arora Educator**



- 1) File manager**
- 2) Field**
- 3) Record**
- 4) Database**
- 5) All of these**

**Q.572. All of the following are steps involved in the boot process except.?**

**Arora Educator**



- 1) Load the operating system in to RAM
- 2) The power on self test
- 3) Activate the basic input/ output system (BIOS)
- 4) Load application programs
- 5) All of these

**Q.573. The \_\_\_\_\_ storage on ROM chip, is responsible for loading the operating system from its permanent location on the hard drive in to RAM..?**

**Arora Educator**



**1) BIOS**

**2) API**

**3) Device driver**

**4) Supervisor program**

**5) None of these**

**Q.574. Collecting personal information and effectively posing as another individual is known as the crime of.?**

**Arora Educator**



- 1) Spooling**
- 2) Identity Theft**
- 3) Spoofing**
- 4) Hacking**
- 5) None of these**



**Q.575. What will happen when the memory chip is volatile.?**

**Arora Educator**



- 1) Explodes due to high temperatures**
- 2) Used for data storage**
- 3) Loss of content due to loss of current**
- 4) Used to write and read data**
- 5) All of these**

**Q.576. It allows storing and making web pages available.?**

**Arora Educator**



- 1) Domain Name**
- 2) Porting**
- 3) Web Hosting**
- 4) All of these**
- 5) None of these**

**Q.577. Which Function is used to calculate Remainder in MS Excel.?**

**Arora Educator**



- 1) INT ( )
- 2) FACT ( )
- 3) MOD ( )
- 4) DIV ( )
- 5) All of these

**Q.578. How you can manually break up the line breakup in MS Word.?**

**Arora Educator**



- 1) Space + Enter**
- 2) Ctrl + Enter**
- 3) Alt + Enter**
- 4) Shift + Enter**
- 5) None of these**

**Q.579. Which of the following are sequentially arranged steps for installing a software.?**

**Arora Educator**



- 1) Download, Run, Install**
- 2) Run, Download, Install**
- 3) Run, Install, Download**
- 4) Download, Install, Run**
- 5) None of these**

**Q.580. In MS Excel, which of the following formula is not entered correctly.?**

**Arora Educator**



1) **=22+825**

2) **137+549**

3) **=B33+V32**

4) **=B2/A15**

5) **None of these**

**Q.581. For each instruction of a program in the memory, the CPU goes through a.?**

**Arora Educator**



- 1) Decode, fetch, execute sequence
- 2) Execute, store, decode sequence
- 3) Fetch, decode, execute sequence
- 4) Fetch, execute, decode sequence
- 5) None of these



**Q.582. Which is the correct arrangement of memories types from highest to lowest speed from flowing options.?**

- 1) secondary storage, main memory, cache, registers**
- 2) registers, cache, secondary storage, main memory**
- 3) registers, cache, main memory, secondary storage**
- 4) cache, registers, main memory, secondary storage**
- 5) None of these**

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**Q.583. Which type of security is provided by 'https'.?**

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**1) TCP**

**2) TLS**

**3) SSL**

**4) Only 2 & 3**

**5) All 1, 2 & 3**

**SSL = Secure Sockets Layer**

**TLS = Transport Layer Security**

**Q.584. The key used to restart a computer is .?**

**Arora Educator**



- 1) Del + Ctrl**
- 2) Backspace + Ctrl**
- 3) Ctrl + Alt + Del**
- 4) Reset**
- 5) None of these**

**Q.585. Which sign display when Formula Error in MS Excel 2019.?**

**Arora Educator**



1) \$

2) \*

3) \

4) #

5) None of these

**Q.586. Adobe developed\_\_\_\_\_, which allows the document to be transmitted and stored without loss of formatting.?**

**Arora Educator**



- 1) Defragmentation**
- 2) Assembler Document Format**
- 3) Filtering Format**
- 4) Portable Document Format**
- 5) None of these**

**Q.587. The binary equivalent of decimal number 99 is.?**

**Arora Educator**



64	32	16	8	4	2	1
1	1	0	0	0	1	1

1) 1110001

2) 1110100

3) 1100011

4) 1111001

5) All are wrong



**Q.588. Which of the following is not the correct method of editing the cell content.?**

**Arora Educator**



- 1) Press the Alt key**
- 2) Press the F2 key**
- 3) Click the formula bar**
- 4) Double click the cell**
- 5) None of these**



**Q.589. Cache memory is.?**

**Arora Educator**



- 1) Smaller and faster than main storage**
- 2) Bigger and slower than main storage**
- 3) Smaller but slower than main memory**
- 4) Bigger and faster than main memory**
- 5) None of these**

**Q.590.Charles Babbage designed two engine. They are.?**

**Arora Educator**



- 1) Addition and Subtraction Engine**
- 2) Analytic and Difference Engine**
- 3) Analytic and Digital engine**
- 4) Addition and Multiplication Engine**
- 5) None of these**

**1822 = Charles Babbage (Difference Engine)**

**1834 = Charles Babbage (Analytical engine)**

**Q.591. Which of the following device was developed by Jack Kilby & Robert Noyce.?**

**Arora Educator**



- 1) Transistor
- 2) IC chip
- 3) Telegraph
- 4) Mouse
- 5) None of these

**Q.592. Which OS is used for advanced Penetration Testing and Security Auditing .?**

**Arora Educator**



- 1) Windows**
- 2) DOS**
- 3) Mac**
- 4) Android**
- 5) Kali Linux**

**Q.593. Which programming language was created by Apple.?**

**Arora Educator**



- 1) FORTRAN**
- 2) SIMULA**
- 3) JAVA**
- 4) PHP**
- 5) SWIFT**

**Q.594. Which of these MS Office product is an upgrade of Microsoft's Skype for Business.?**

**Arora Educator**



- 1) Microsoft Team**
- 2) Microsoft Project**
- 3) Microsoft Publisher**
- 4) Microsoft Group**
- 5) None of these**



**Q.595. Which of these is a word processor included in MS Office.?**

**Arora Educator**



**1) MS Word**

**2) MS PowerPoint**

**3) MS Excel**

**4) MS Paint**

**5) MS Access**



**Q.596. What is the text styling feature of MS Word known as.?**

**Arora Educator**



- 1) WordArt**
- 2) WordFill**
- 3) WordStyle**
- 4) WordLooks**
- 5) None of these**

**Q.597. In Windows 10 biometric login feature has been named.?**

**Arora Educator**



- 1) Windows Padlock**
- 2) Windows Instant**
- 3) Windows Bio**
- 4) Windows Hello**
- 5) None of these**

**Q.598. Which desktop feature has been included in Windows 10 that was omitted from Windows 8.?**

**Arora Educator**



- 1) Recycle Bin**
- 2) Gadgets**
- 3) Search via the Windows Key**
- 4) Start Menu**
- 5) None of these**

**Q.599. In Windows 10, what is the shortcut key to take a screenshot of entire display and save.?**

**Arora Educator**



- 1) Ctrl + PrtScn**
- 2) Alt + PrtScn**
- 3) Shift + PrtScn**
- 4) Windows Key + PrtScn**
- 5) None of these**

**Q.600. Windows 10 belongs to which family of Windows.?**

**Arora Educator**



- 1) Windows 7X**
- 2) Windows NT**
- 3) Windows AP**
- 4) Windows NET**
- 5) All of these**

# Twitter



**Jack Dorsey**

✓ 2006 (21 March 2006)





# Twitter

Arora Educator



- ✓ **Twitter CEO = Parag Agarwal**
- ✓ **Twitter Owned by = Elon Musk = 25 April 2022**
- ✓ **Twitter = Microblogging Website**
- ✓ **Twitter buy amount is = \$54.20 a share — valuing the firm at roughly \$44 billion**
- ✓ **Twitter Motto = Being fast, free, and fun.**





# Twitter

Arora Educator



- ✓ American App
- ✓ Microblogging App
- ✓ Interact via = Tweets
- ✓ Founder = Jack Dorsey
- ✓ Twitter Character Limit (Old) = 140
- ✓ Twitter Character Limit (New) = 280
- ✓ Tweets Limit Per Day = 2400
- ✓ Founded Year = 2006 (21 March 2006)
- ✓ Mascot = Larry the Bird

# Twitter

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✓ **Twitter Founded by =**

- 1) Jack Dorsey**
- 2) Biz Stone**
- 3) Noah Glass**
- 4) Evan Williams**

**Q.1. Who is the present CEO of twitter.?**

**Arora Educator**

- 1) Jack Dorsey**
- 2) Vinay Prakash**
- 3) Kevin Systrom**
- 4) Parag Agrawal**
- 5) Elon Musk**



**November 2021**





**Q.2. Twitter founded in what year.?**

**1) 2004**

**2) 2005**

**3) 2006**

**4) 2008**

**5) 2010**



**Q.3. Twitter's official mascot name is.?**

**Arora Educator**



- 1) Mountain Bluebird**
- 2) The Hummingbird**
- 3) Larry the Bird**
- 4) Woodpecker the Bird**
- 5) Flying Bird**



**Q.4. It is a metadata that enables cross-referencing of content & are used on microblogging and photo-sharing services .?**

1) @

2) #

3) ;

4) \$

5) %



**Arora Educator**





**Q.5. New Character limit in Twitter handle is.?**

**Arora Educator**



- 1) 60 Characters
- 2) 140 Characters
- 3) 400 Characters
- 4) 280 Characters
- 5) None of these





## Q.6. Which of the following is not true about Twitter.?

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- 1) People who follow you are called followers
- 2) The Twitters users followed by you are the people or business whose updates you subscribe to
- 3) There is no limit to the number of accounts you can follow
- 4) A request can be sent on twitter for other people to follow you on twitter
- 5) None of these





**Q.7. What is meant by “micro-blogging”.**

- 1) Blogging Compulsory**
- 2) Blogs that are posted by companies**
- 3) Blogs with limited individual posts**
- 4) Blogging from mobile devices**
- 5) All of these**





**Q.8. Twitter has popularized the use of.?**

- 1) emojis
- 2) instagrams
- 3) hashtags
- 4) Tweets
- 5) All of these





**Q.9. All data we gather from Twitter is written in format.?**

- 1) CSV**      comma-separated values
- 2) JSON**
- 3) Key-Value**
- 4) Java**
- 5) None of these**





**Q.10. Twitter API result is in which format.?**

**JavaScript Object Notation**

- 1) Numeric
- 2) CSV
- 3) JSON**
- 4) Key-Value
- 5) None of these





**Q.12. Twitter is a \_\_\_\_\_ service.?**

- 1) Blogging**
- 2) Microblogging**
- 3) Daily blogging**
- 4) None of above**
- 5) All of these**





**Q.13. Python library to connect to Twitter's API called.?**

- 1) Numpy
- 2) Tweepy
- 3) Matplotlib
- 4) Pandas
- 5) None of these







**Q.14. Name the Algorithm used by Twitter.?**

**Hyperlink- Induced Topic Search**

- 1) Tweet
- 2) Miss
- 3) HITS**
- 4) Tweet Rank
- 5) Page Rank





**Q.15. “Super Follows” feature has been introduced by which social media giant.?**

- 1) Twitter**
- 2) Facebook**
- 3) Google**
- 4) WhatsApp**
- 5) Instagram**





**Q.16. Which social media platform discontinued its feature named 'Fleets'.?**

- 1) Facebook**
- 2) Instagram**
- 3) Twitter**
- 4) WhatsApp**
- 5) Whatsapp**

**Fleets disappear after 24 hours and do not get Retweets**





**Q.17. Which social media platform is testing a feature named 'Tip Jar', which enables users to send money to favorite accounts?**

- 1) Facebook**
- 2) Instagram**
- 3) Twitter**
- 4) WhatsApp**
- 5) LinkedIn**

**Tip Jar feature allows iOS and Android users can send money directly to their favorite accounts.**





**Q.18. Which social media started hashtags.?**

- 1) Facebook**
- 2) Instagram**
- 3) Twitter**
- 4) WhatsApp**
- 5) LinkedIn**





**Q.19. The hashtag was first brought to Twitter on.?**

- 1) August 23, 2005**
- 2) August 23, 2007**
- 3) August 23, 2009**
- 4) August 23, 2015**
- 5) August 23, 2016**







**Q.20. The hashtag was first brought to Twitter on August 23, 2007 by.?**

- 1) Ada Lovelace**
- 2) Jan Koum**
- 3) Chris Messina**
- 4) Jack Dorsey**
- 5) None of these**







**Q.21. The first tweet was made by whom.?**

- 1) Ada Lovelace**
- 2) Jan Koum**
- 3) Chris Messina**
- 4) Jack Dorsey**
- 5) None of these**

**First Tweet = "just setting up my twttr,"**





**Q.22. Twitter was created by.?**

- 1) Biz Stone & Evan Williams**
- 2) Jack Dorsey**
- 3) Noah Glass**
- 4) All Above**
- 5) None of these**





**Q.23. Twitter user who has subscribed to your account so he or she can see all your posts and updates on your own page called.?**

- 1) Fan**
- 2) Subscriber**
- 3) Follower**
- 4) Twit**
- 5) All of these**





**Q.24. To communicate with another Twitter user, you can either send a direct message (privately) or \_\_\_\_\_ the user in your public post .?**

- 1) Tweet**
- 2) Retweet**
- 3) Mention**
- 4) DM**
- 5) All of these**



**For example, '@CaptainCook I agree with what you're saying!'**



**Q.25. It is a tweet-like message that is sent privately and can only be seen by the sender and the receiver.?**

- 1) Tweet**
- 2) Retweet**
- 3) Mention**
- 4) DM**
- 5) None of these**





**Q.26. It is a keyword or phrase that is preceded by a pound (#) sign.?**

- 1) Tweet**
- 2) Retweet**
- 3) Mention**
- 4) Hashtag**
- 5) Ampersand**





**Q.27. It is a list of updates or tweets that are constantly being updated.?**

- 1) Tweet**
- 2) Retweet**
- 3) Feed**
- 4) Hashtag**
- 5) None of these**







**Q.28. The personal image (avatar) associated with your account is called.?**

- 1) Display Picture**
- 2) Profile Picture**
- 3) Profile Photo**
- 4) Profile DP**
- 5) None of these**





**Q.29. A Tweet that you forward to your followers is known as a.?**

- 1) Tweet**
- 2) Retweet**
- 3) Mention**
- 4) Hashtag**
- 5) All of these**





**Q.30. Username in twitter is also called as.?**

- 1) Profile Name**
- 2) Tweet Name**
- 3) Follower**
- 4) Handle**
- 5) None of these**





**Q.31. A verified Twitter account receives a \_\_\_\_\_ to indicate that the creator of these Tweets is a legitimate source.?**

- 1) blue check icon**
- 2) white check icon**
- 3) green check icon**
- 4) red check icon**
- 5) None of these**





**Q.32. Twitter has appointed \_\_\_\_\_ as its resident grievance officer for India.?**

- 1) Spoorthi Priya**
- 2) Paresh Lal**
- 3) Vinay Prakash**
- 4) Julie Duvall**
- 5) None of these**





**Q.33. Name the Indian Microblogging Website.?**

- 1) WhatsApp**
- 2) Twitter**
- 3) Facebook**
- 4) Koo**
- 5) Instagram**





**Q.34. Koo microblogging app was launched in which year.?**

**1) 2021**

**2) 2020**

**3) 2019**

**4) 2017**

**5) 2022**







**Q.35. Character limit in Koo app is.?**

- 1) 60 Characters**
- 2) 100 Characters**
- 3) 400 Characters**
- 4) 500 Characters**
- 5) 120 Characters**



# Koo

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- ✓ Indian App
- ✓ Indian Microblogging App
- ✓ Won = India's Aatmanirbhar App Innovation Challenge in August 2020
- ✓ Founded Year = 2019
- ✓ Launch Year = 2020
- ✓ Founders = Aprameya Radhakrishna & Mayank Bidawatka
- ✓ Character Limit = 400
- ✓ Logo = Yellow Bird





**Q.1. Network that span across continent countries.?**

**WAN = Wide Area Network**

**Q.2. Header & Footer in which tab in MS Word.?**

**Insert**





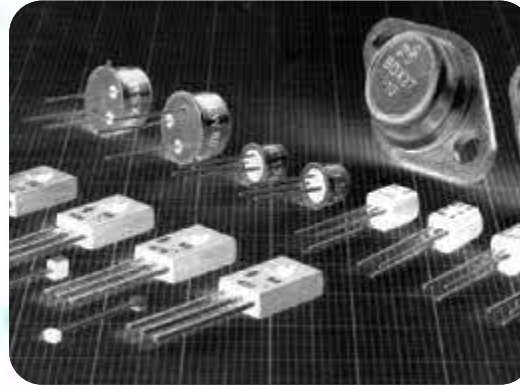
**Q.3. MS Word Extension 2013.?**

**.docx**



**Q.4. 2 generation.?**

**Transistor**



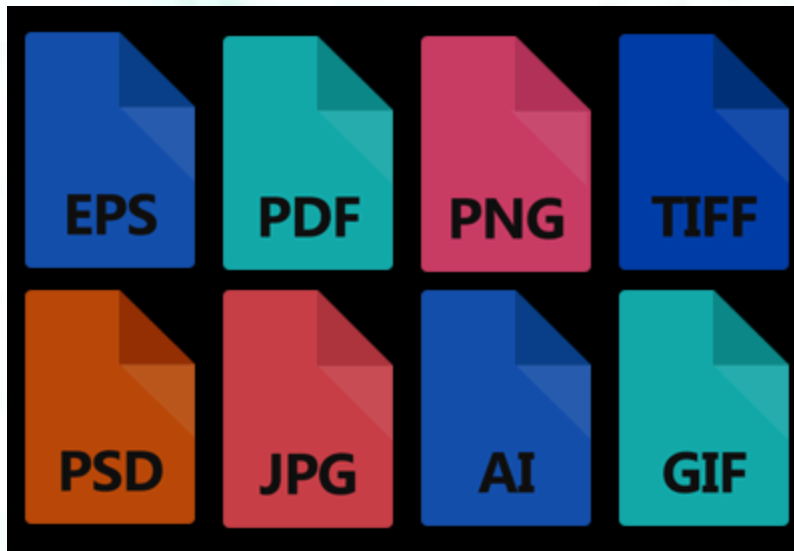
**Q.5. Image Extension.?**

**.bmp = Bitmap image file**



# Image Extension.?

- 1) **GIF = Graphics Interchange Format**
- 2) **JPEG = Joint Photographic Expert Group**
- 3) **PNG = Portable Network Graphics**
- 4) **BMP = Bitmap file**
- 5) **TIFF = Tagged Image File Format**

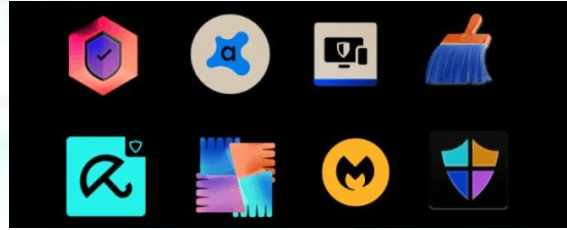






**Q.6. Who secure your device from Vulnerability.?**

**Antivirus**



**Q.7. Which device convert Soft Copy into Hard Copy.?**

**Printer**



**Q.8. Which OS is used in iPhone .?** **Arora Educator**

**ios**  **ios**



**Q.9. Which OS is used by Apple desktop.?**

**mac OS**



**Q.10. Stop Slide show in ppt.?**

**esc**







**Q.11. When you left something typing in MS Outlook.?**

**Draft**



**Q.12. Which ROM can be written only once.?**

**PROM**





**Q.13. Sending SPAM over the Email.?**

**Phishing**



**Q.14. 2's Compliment of 0101.?**

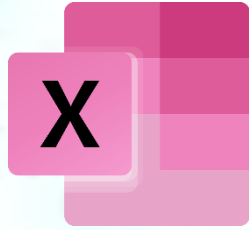
**1 's Compliment = 1010**

**2's Compliment =**

1	0	1	0
		1	
-----			
1	0	1	1
-----			

**Q.15. .XLS is an extension for which file.?**

**Excel File**

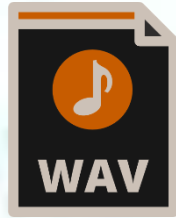


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**Q.16. .wav is used in which file format.?**

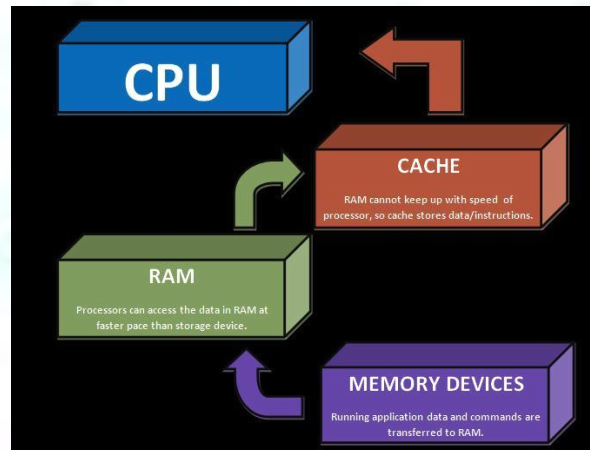
**Audio file Format**



**Waveform Audio File Format**

**Q.17. Cache is a type of which memory.?**

**Volatile memory**





**Q.18. Which Virus replicate itself.?**

**WORM**



**Q.19. Ctrl + ] used for.?**

**To increase the font size**

**Q.20. Which is not a Operating System.?**

**Google Chrome**

# Q.21. Port which is connected Externally.?

## Printer

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**Internal Port Connects motherboard with**

- ✓ **hard disk drive**
- ✓ **CD drive**
- ✓ **internal modem**

**External Port Connects motherboard with**

- ✓ **Modem**
- ✓ **Mouse**
- ✓ **Printer**
- ✓ **flash drives**



# Q.22. Name the Antivirus.?

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- 1) Norton
- 2) Avast
- 3) Avira
- 4) McAfee
- 5) Microsoft Defender
- 6) Kaspersky
- 7) Bitdefender
- 8) Trend
- 9) Malware Bytes
- 10) AVG
- 11) Sophos



# Q.23. Which of the following is not a product of MS Office.?

**Arora Educator**



## **MS Office Product**

- 1) Microsoft Word.
- 2) Microsoft Excel.
- 3) Microsoft PowerPoint.
- 4) Microsoft OneNote.
- 5) Microsoft Outlook.
- 6) Microsoft Publisher.
- 7) Microsoft Access.
- 8) Skype for Business.
- 9) Windows OS
- 10) Microsoft Team





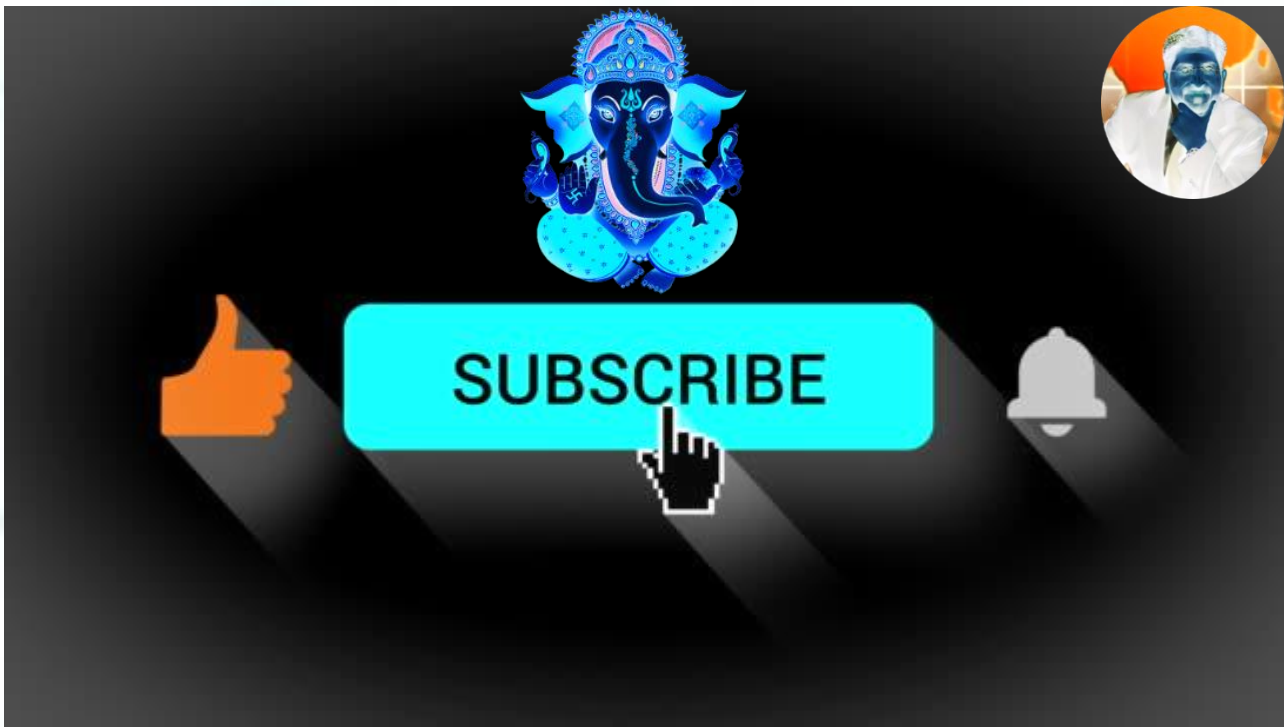
## Q.24. Patch .?

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A **software patch** or **fix** is a **quick-repair** job for a piece of programming designed to resolve functionality issues, improve security and add new features.





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