

Contents

Questions asked in IBPS PO & RRB Clerk Mains 2016.....	2
MEMORY BASED QUESTIONS RRB PO AND CLERK 2017:.....	4
History	5
Generation of Computer	6
Types of computer	6
Hardware and I/O Devices	7
Software and Operating System	9
Computer Languages	10
MEMORY MANAGEMENT	10
Number System.....	12
Computer Network.....	13
Internet.....	15
Computer Security	16
Microsoft Office.....	16
DATABASE MANAGEMENT SYSTEM	19
FULL FORMS & ABBREVIATIONS.....	19
GLOSSARY	21
Important Questions Based on Microsoft Office:	24
Miscellaneous Questions on Computer Knowledge.....	27

1. Which among the following is not a mobile Operating System?
(a) Bada (b) **Safari** (c) Symbian
(d) MeeGo (e) WebOS
2. Which among the following key can be used as a shortcut to rename a folder in Microsoft Windows 8 and higher versions?
(a) **F2** (b) F4 (c) F6
(d) F9 (e) F11
3. AT&T designed its first commercial modem, specifically for converting digital computer data to analog signals for transmission across its long distance network. What is the name of the modem?
(a) Telex (b) Memex (c) CompuServe
(d) Bell 103 dataset (e) **Dataphone**
4. Integrated Chips or IC's were started to be in use from which generation of Computers?
(a) 1st Generation (b) 2nd Generation
(c) **3rd Generation** (d) 4th Generation
(e) 5th Generation
5. In Computer programming there is set of subroutine definitions, protocols, and tools for building software and applications. Which among the following is a term for sets of requirements that govern how one application can talk to another?
(a) UPS (b) **API** (c) CGI
(d) J2EE (e) OLE
6. BSoDs can be caused by poorly written device drivers or malfunctioning hardware, such as faulty memory, power supply issues, overheating of components, or hardware running beyond its specification limits. Which color screen is displayed when encountered a BSOD Error?
(a) Red (b) Grey (c) Black
(d) **Blue** (e) Green
7. Which among the following is the smallest unit in an image in a computer screen?
(a) Unit (b) **Pixel** (c) Array
(d) Resolution (e) Clip
8. Microsoft Word is a word processor developed by Microsoft. In MS Word Spelling Check is a feature available in which tab?
(a) File (b) Home (c) Insert
(d) **Review** (e) References
9. There is a network that can connect networks ranging from small location or area to a bigger range including public packet network and large corporate networks. That network's enterprise allows users to share access to applications, services and other centrally located resources. Its ability for a huge geographical access has transformed networking. Which among the following is that network?
(a) SAN (b) CAN (c) LAN
(d) **WAN** (e) MAN
10. Which among the following is not an Object Oriented Programming Language?
(a) Python (b) **PASCAL** (c) Java
(d) C++ (e) Ruby
11. Which cloud is a cloud computing environment that uses a mix of on-premises, private cloud and third-party, public cloud services with orchestration between the two platforms and it is particularly valuable for dynamic or highly changeable workloads?
(a) Dynamic Cloud (b) Advance Cloud
(c) **Hybrid Cloud** (d) Sharing Cloud
(e) Combined Cloud
12. If you are allowing a person on the network based on the credentials to maintain the security of your network, then this act refers to the process of _____.
(a) **Authentication** (b) Automation (c) Firewall
(d) Encryption (e) Decryption
13. The use of combination of 1's and 0's is feature of which of the following type of Computer Language?
(a) High Level Language (b) PASCAL
(c) **Machine Language** (d) C
(e) COBOL
14. Which among the following is a recently debated principle that Internet service providers and governments regulating the Internet should treat all data on the Internet the same, not discriminating or charging differentially by user, content, website, platform, application, type of attached equipment, or mode of communication?
(a) Comcast (b) **Net Neutrality**
(c) Oblique-net (d) Net Fraternity
(e) Fair Web
15. Which among the following is an important circuitry in a computer system that directs the operation of the processor?
(a) Memory (b) Address Bus
(c) Accumulator (d) ALU (e) **Control Unit**
16. MS Word is a text or document editing application program that comes in the package of MS Office Suite. Which among the given options is not related with MS Word?
(a) Page Layout (b) **Antivirus** (c) Mailings
(d) Format Painter (e) SmartArt
17. Which among the following is another name for a group of 4 bits?
(a) **Nibble** (b) Byte (c) Kilo Byte
(d) Mega Byte (e) Peta Byte
18. Which among the given options is IBM's Supercomputer?
(a) Tihane-2 (b) SunwayTaihu Light
(c) **Watson** (d) Shasra-T (e) Brain
19. Which is a feature included in Microsoft PowerPoint software that allows the user to see all the slides in a presentation at one time?
(a) **Slide Sorter** (b) Slide Master
(c) Handout Master (d) Slide Header (e) Reading View
20. Which among the given options does not have flash memory?

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- (a) Pen Drive (b) Hard Disk (c) **Car Radio**
(d) Memory Cards (e) Memory Stick
21. Which of the following is not valid version of MS Office?
(a) Office 2010 (b) **Office Vista** (c) Office 2007
(d) Office 2016 (e) None of the above
22. Chief component of first generation computer was _____.
(a) Transistors (b) **Vacuum Tubes and Valves**
(c) Integrated Circuits
(d) VLSI (e) ULSI
23. Which among the following is the largest space?
(a) Kilobyte (b) **Petabyte** (c) Terabyte
(d) Gigabyte (e) Megabyte
24. Communication between walkie-talkies involves which of the following types of transmission?
(a) Simplex (b) Full-Duplex (c) **Half-Duplex**
(d) Online (e) None of these
25. The process of replacing Windows 8 with Windows 8.1 is called _____.
(a) Upgrading (b) **Updating** (c) Installing
(d) Downgrading (e) Replacement
26. Example of telecommunication device is a _____.
(a) **modem** (b) printer (c) keyboard
(d) scanner (e) mouse
27. Which among the following is the reboot where the power to the system is physically turned off and back on again, causing an initial boot of the machine?
(a) Toggle (b) **Cold booting**
(c) Warm booting (d) Logging off (e) None of these
28. Which of the following option may be used to change page-size and margins?
(a) **Page Layout** (b) View (c) Home
(d) Data (e) Review
29. What is a Firewall in Computer Network?
(a) The physical boundary of Network
(b) An operating System of Computer Network
(c) **A system designed to prevent unauthorized access**
(d) A web browsing Software
(e) None of these
30. Which one of the following is an added set of one or more attributes taken collectively to uniquely identify a record?
(a) Alternate key (b) Sub key (c) **Super key**
(d) Foreign key (e) None of these
31. Bluetooth is an example of which of the following networks?
(a) **Personal area network** (b) Local area network
(c) Virtual private network (d) None of the above
(e) Wireless fidelity
32. What is the new default font used in MS Word document?
(a) Times New Roman (b) Arial
(c) Algerian (d) Preeti (e) **Calibri**
33. Which is not an object oriented Programming language-?
(a) JAVA (c) C++ (b) Python
(d) **FORTRAN** (e) Ruby
34. Who among the following sent the first electronic mail?
(a) **Ray Tomlinson** (b) Charles Babbage
- (e) J.Presper Eckert (d) John W Mauchly
(e) Ana Lovelace
35. What are programs such as Microsoft Edge that serve as navigable windows into the Web called as?
(a) Hypertext (b) **Web browsers**
(c) Internet (d) Networks
(e) Windows Navigator
36. Which among the following is a self-contained step-by-step set of operations to be performed?
(a) System Software (b) **Algorithm**
(c) Network topology (d) Application software
(e) Utility software
37. What is Remote Desktop Connection?
(a) It was known as Terminal Services in Windows Server 2008 and earlier, it is one of the components of Microsoft Windows.
(b) a technology that allows you to carry your computer in remote areas.
(c) a technology that allows you to sit at the client computer and connect to the host remote computer in a different location
(d) **both (a) and (c)**
(e) All of the above
38. When you save a Microsoft Access project, what file format do you use?
(a) **.adp** (b) .Xml (c) .gif
(d) .doc (e) .pptx
39. What is the function of control unit?
(a) Providing resources to another node on a network
(b) Performing complex task of logical and arithmetic functions
(c) Memory usage
(d) **Directing the operation of the other units by providing timing and control signals.**
(e) Displaying output to the end-user
40. Which memory is non-volatile and may be written only once?
(a) RAM (b) EPROM (c) EEPROM
(d) **PROM** (e) None of the above

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MEMORY BASED QUESTIONS RRB PO AND CLERK 2017:

Q1. There is a small-sized type of volatile computer memory that provides high-speed data access to a processor and stores frequently used computer programs, applications and data. Which among the following is a type of memory used to hold frequently used data?

- (a) Microprocessor (b) **Cache** (c) ROM
(d) ALU (e) Control

Q2. ____ memory in a computer is where information is temporarily stored while it is being accessed or worked on by the processor.

- (a) Logical (b) Secondary (c) ROM
(d) **RAM** (e) Crude

Q3. Which among the following is a small set of data holding place that is a part of the computer processor and may hold an instruction, a storage address, or any kind of data?

- (a) **Register** (b) WAN (c) Bus
(d) Address (e) Processor

Q4. An optical input device that interprets pencil marks on paper media is ____.

- (a) **OMR** (b) punch card reader
(c) optical scanners (d) magnetic tape (e) Stylus

Q5. Which among the following is related to the internet and e-mail?

- (a) Boot-Up (b) Magnetic Tapes
(c) Application Software (d) Paging (e) **Virus**

Q6. Shift, Control, Alt are examples of which among the following category?

- (a) **Modifier Keys** (b) Primary Keys
(c) Function Keys (d) Alternate Keys
(e) Candidate Keys

Q7. In a keyboard, left-right-up-down set of keys facilitates which among the following function?

- (a) Deleting Data or Modification
(b) **Page Scrolling to view a Document**
(c) Launching Start Menu
(d) Initiating Search and Help
(e) Controlling RAM or process execution

Q8. Which among the following term means/refers to web address of a page?

- (a) SMTP (b) IP (c) HTTP
(d) **URL** (e) MAC

Q9. Which of the following is always a part of an E-mail address?

- (a) Period (.) (b) **At sign (@)** (c) Space ()
(d) Underscore () (e) Angular Bracket (<)

Q10. Which among the following is a term for the initial or main web page of a website or a browser?

- (a) URL (b) Domain (c) Google
(d) Search Engine (e) **Home Page**

Q11. What does .org stands for?

- (a) Government (b) Commercial Site
(c) **Organization** (d) Orientation (e) Website

Q12. Help menu is available at which button?

- (a) End (b) **Start** (c) Turn Off
(d) Restart (e) Reboot

Q13. Which among the following is area of an email that is a short description of the message?

- (a) **Subject** (b) CC (c) BCC

- (d) Attachment (e) Spam

Q14. Which among the following is the smallest unit in an image in a computer screen?

- (a) Unit (b) **Pixel** (c) Array
(d) Resolution (e) Clip

Q15. Different icons of application software can be found in which bar in latest version of Microsoft Windows?

- (a) **Start Menu** (b) Browser (c) Status
(d) Control Panel (e) Personalize

Q16. Information that comes from external source and fed into computer software is called ____.

- (a) Output (b) **Input** (c) Throughout
(d) Reports (e) Process

Q17. An email attachment is referred to as?

- (a) The body of the email
(b) The address of the sender
(c) A document that is sent with an email
(d) The address of the receiver
(e) **Any document that can be attached and sent with an email**

Q18. What is the default extension of Microsoft Word 2013?

- (a).dcc (b).**docx** (c).xls
(d).ppt (e).ycs

Q19. Which unit is a combinational digital electronic circuit that performs arithmetic and bitwise operations on integer binary numbers?

- (a) BOU (b) AEU (c) CPU
(d) **ALU** (e) UPS

Q20. Which button is called as middle button used as third mouse button by pressing on it.

- (a) right button (b) **scroll wheel**
(c) touch bar (d) light bar (e) left button

Q21. Presentation of a series of still images on a projection screen or electronic display device is called as:

- (a) slide edit (b) slide view (c) **slide show**
(d) slide movie (e) slide image

Q22. Which memory is used as temporary memory?

- (a) Non-volatile memory
(b) **volatile memory**
(c) hard disk memory
(d) read only memory
(e) flash disc memory

Q23. A software program that add functionality to your computer or help your computer perform better is called as

- (a) **Utility program**
(b) function program
(c) specialized program
(d) manufacturer program
(e) compiling program

Q24. Which unit of computer helps in communication between the memory and the arithmetic logical unit.

- (a) CMU (b) CCU (c) UPS
(d) **CPU** (e) ALU

Q25. Specialized program that allows user to utilize in specific application is classified as

- (a) relative programs
(b) **application program**
(c) appropriate programs

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- (d) replicate programs
(e) logical programs
- Q26. Which of the following is most commonly used to identify return visitors to a website?
- (a) logged-in visitors
(b) digital certificates
(c) electronic time stamping
(d) cookies
(e) None of the above.
- Q27. _____ is a type of electronic spam where unsolicited messages are sent by email.
- (a) trash mail (b) cram mail (c) draft mail
(d) spam mail (e) starred mail
- Q28. Data on a floppy disk was recorded in rings called ____.
- (a) flip (b) ringers (c) rounders
(d) fields **(e) segments**
- Q29. Choose the odd one out:
- (a) Word (b) Excel (c) Access
(d) Keyboard (e) PowerPoint
- Q30. A device that not only provides surge protection, but also furnishes the computer with battery backup power during a power outage is ____.
- (a) Battery strip **(b) UPS** (c) Surge strip
(d) USB (e) Memory
- Q31. A(n) _____ allows you to access your e-mail from anywhere.
- (a) Forum **(b) Webmail interface**
(c) Message Board (d) Weblog (e) EEPROM
- Q32. Which of the following is not a valid memory unit?
- (a) ILB** (b) KB (c) YB
(d) PB (e) Byte
- Q33. Which of the following is a machine independent program?
- (a) High level language** (b) Low level language
- (c) Assembly language (d) Machine language
(e) None of these
- Q34. Which one of the following is not an e-mail service provider?
- (a) Hotmail (b) Gmail **(c) Bing**
(d) Yahoo mail (e) Outlook
- Q35. Which of the following fields of an e-mail hides the identity of the recipients?
- (a) To (b) From (c) Cc
(d) Bcc (e) Subject
- Q36. Using output devices one can ____.
- (a) View or Print Data** (b) Modify Data
(c) Store Data (d) Replicate Data
(e) Enter Data
- Q37. Which among the following functions does Ctrl+P perform?
- (a) Project (b) Erase (c) Copy
(d) Paste **(e) Print**
- Q38. The key combination of 'Ctrl + Right Arrow' is used to _____ in MS Word.
- (a) Move the cursor one word to the right**
(b) Move the cursor to the end of the line
(c) Move to cursor to the end of the document
(d) Move the cursor one paragraph down
(e) None of these
- Q39. The default extension of Power point 2013 is-
- (a) .ppt (b) .pdf **(c) .pptx**
(d) .pps (e) .ppn
- Q40. _____ is a useful tool which allows you to create a huge number of documents by merging the main document with the data source.
- (a) Mail Merge** (b) Track Change (c) Page Margin
(d) Orientation (e) Indentation

History

The word Computer in earlier times meant a person who performed calculations or computations. With years its definition changed to a machine that performs calculations. It can perform all type of mathematical and logical

operations; it can accept data, store data, retrieve data, process data and produce output.

Charles Babbage was known as father of computer. He invented two machines in 1822 introduced **Difference Engine** and in 1834, introduced **Analytical engine**

Difference Engine	Charles Babbage	First automatic mechanical calculator
Analytical Engine	Charles Babbage	Mechanical general-purpose computer
Z1	Konrad Zuse	World's first freely programmable computer
MARK-1	Konrad Zuse	First Freely programmable Computer
ENIAC	John W. Mauchly and J. Presper Eckert	First general purpose programmable electronic computer
EDSAC	John von Neumann	First computer to store program
EDVAC	John W. Mauchly and J. Presper Eckert	Binary serial computer
UNIVAC	John W. Mauchly and J. Presper Eckert	First general-purpose computer for commercial use
Intel 4004	Intel	First commercially available microprocessor by Intel, a 4-bit CPU
LISA(Local Integrated Software Architecture)	Apple Inc.	First commercial personal computers to have a GUI
Dataphone	AT&T	First AT&T Commercial modem

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ARPANET	United States Department of Defence	Early packet switching network and the first network to implement the protocol suite TCP/IP.
NEXUS Browser (WorldWideWeb)	Tim Berners-Lee	First Web Browser was WorldWideWeb later named Nexus. The first commonly available web browser with a graphical user interface was Erwise .
Six Degrees		First social networking/ social media site

ENIAC was the first digital computer and it was invented by J.Presper Eckert and John Mauchly at the University of Pennsylvania and began construction in 1943. It uses 18000 vacuum tubes as a storing device. They were also founders of the first computer company, it was initially named Electronic Controls Company which was later changed to **Eckert-**

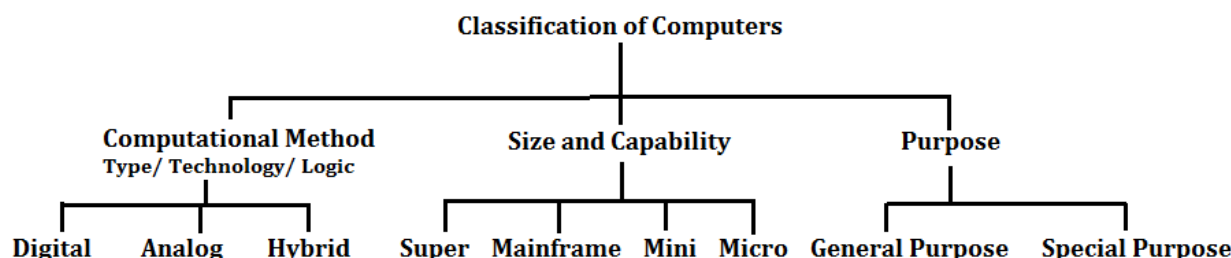
Mauchly Computer Corporation, and released a series of mainframe electronic digital stored-program computer under the name of **UNIVAC**.

MIT introduces the **whirlwind** machine (first computer with RAM) on March 8, 1955.

Generation of Computer

Subject	1 st generation	2 nd generation	3 rd generation	4 th generation	5 th generation
Period	1940-1956	1956-1963	1964-1971	1971-present	present & beyond
Circuitry	Vacuum tube	Transistor	Integrated chips (IC)	Microprocessor (VLSI)	ULSI (Ultra Large Scale Integration) technology
Memory Capacity	20 KB	128KB	1MB	Semiconductor type and very high	VLSI and ULSI
Processing Speed	300 IPS inst. Per sec.	300 IPS	1MIPS(1 million inst. Per sec.)	Faster than 3 rd generation	Very fast
Programming Language	Assembly Language	High level language (FORTRAN, COBOL, ALGOL)	C,C++	C,C++,Java	All the Higher level languages, Neural networks,
Example of computers	UNIVAC, EDVAC	IBM 1401, IBM 7094, CDC 3600,D UNIVAC 1108	IBM 360 series, 1900 series	Pentium series Multimedia, Stimulation	Artificial Intelligence, Robotics

Types of computer



Analog computer introduced by Lord Kelvin. Numerical data are represented by measurable physical variables such as electrical voltage. A thermometer is a simple analog computer.

Digital computer that accepts and process data in the form of numbers and all the character are converted into binary code.

Hybrid computer used the combined feature of analog and digital machine. you can see hybrid computer in geological departments.

Microcomputer these are small relatively inexpensive computer designed for personal and office use. It has lowest

storing and processing speed. These can be laptop or desktop.

Minicomputer powerful as compare to microcomputer it has higher memory provide faster operating speeds and large storage capacities than microcomputers. It can be used as a server and capable of supporting from 2 to 200 users.

Mainframe computer it has very high memory and processing speed and used as a server (can support thousands of users)

Super computer can be used for complex type of application i.e. specific research, weather forecasting, Weapon designing etc.

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CDC 6600 was the first successful supercomputer.

Sunway TaihuLight of China is the fastest supercomputer in the world.

PARAM-8000 India's first Super Computer developed by C-DAC Pune in 1998.

Shasra T is considered as **India's fastest super computer**, manufactured by Indian Institute of Science.

Servers are dedicated computers that serve the needs or request of other programs or computer.

Workstations serve usually one user only.

Information appliances are computers specially designed to perform a specific "user-friendly" function—such as playing music, photography.

An embedded system is a computer system with a dedicated function within a larger system.

Hardware and I/O Devices

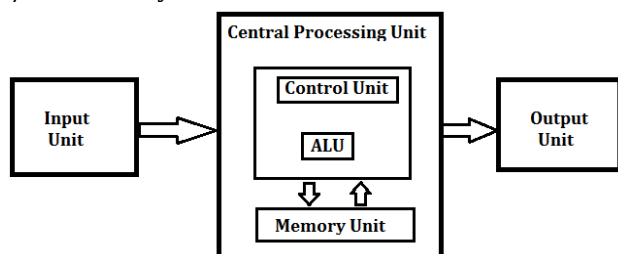
A computer is an electronic device that accepts data from the user (input), processes the data by performing calculations and operations on it and generates the desired Output.

An unprocessed collection or representation of raw facts represented in a manner suitable for communication, interpretation or processing by humans or by automatic means, is known as **Data**.

Personal computers use a number of chips mounted on a main circuit board called **Motherboard**. A motherboard is the physical arrangement in a computer that contains the computer's basic circuitry and components.

An **output device** is any piece of computer hardware equipment used to communicate the results of data processing carried out by an information processing system (such as a computer) which converts the electronically generated information into human-readable form.

The CPU is fabricated as a single Integrated Circuit (IC) chip. It is also known as the **Microprocessor**. Multiprocessor Computers uses two or more central processing units (CPUs) within a single computer system. The term also refers to the ability of a system to support more than one processor and/or the ability to allocate tasks between them.



The **central processing unit (CPU)** is the brain of your computer. It handles all the instructions you give your computer. The **control unit (CU)** is a component of a computer's central processing unit (CPU) that directs operation of the processor. It tells the computer's memory, arithmetic/logic unit and input and output devices how to respond to a program's instructions.

An **arithmetic logic unit (ALU)** is a digital circuit used to perform arithmetic and logic operations. It represents the fundamental building block of the central processing unit (CPU) of a computer.

Instruction Execution: the program which is to be executed is a set of instruction which are stored in memory. The CPU executes the instructions of program to complete a task and this execution takes place inside the CPU with the help of

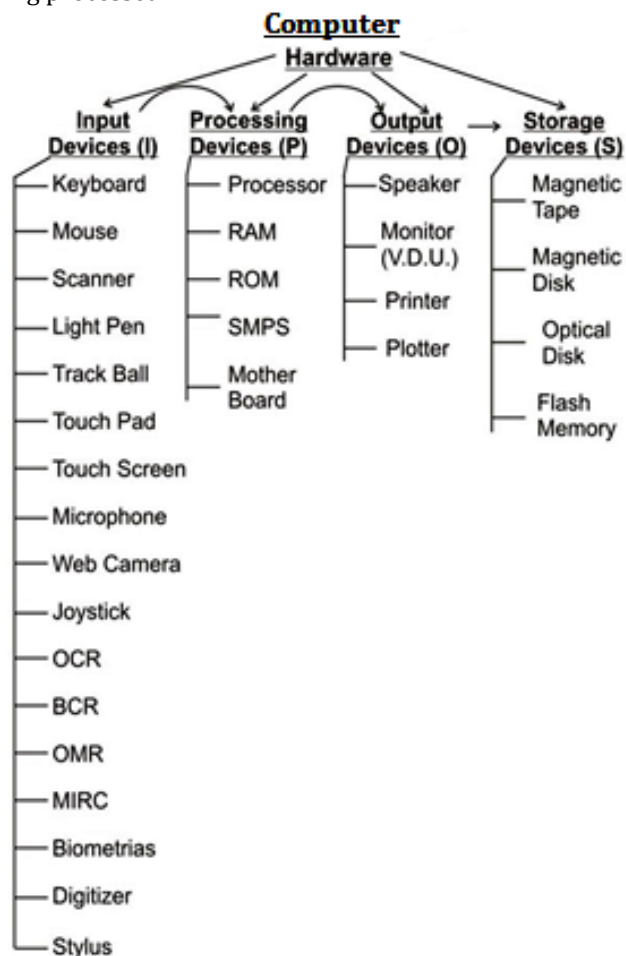
registers ALU (arithmetic logic unit) and CU(control unit). When the processor executes instructions, data is temporarily stored in small local memory location and these are called registers.

Accumulator Register:- which stores the immediate result of arithmetic and logical operations.

Memory address register (MAR) :- which contain the address of memory location to which data is to be stored.

Program counter :- which contain the address of the next instruction to process.

Instruction register:- which contain the current instruction being processed



The data that is fed into a computer processor, received into the computer by a keyboard or other sources is called **Input**. Examples of input devices include keyboards, mouse, scanners, digital cameras and joysticks.

A **keyboard** is a typewriter-style device, which uses an arrangement of buttons or keys, to act as mechanical levers

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or electronic switches. Most of the commonly available personal computers have a keyboard, popularly known as Qwerty.

Function Keys	F1-F2
Toggle Keys	Caps Lock, Num Lock,
Modifier Keys	Shift, Alt, Ctrl, Fn
Alphanumeric Keys	A-Z, 0-9

'Caps lock' and 'Num lock' keys are called as **Toggle Keys** because when pressed, they change their status from one state to another.

Numeric Keypad is a keypad located on the right hand side of the keyboard. It consists of digits and mathematical operators.

A **Modifier key** is a special key (or combination) on a computer keyboard that temporarily modifies the normal action of another key when pressed together. By themselves, modifier keys usually do nothing; that is, pressing any of the Shift, Alt, or Ctrl keys alone does not (generally) trigger any action from the computer.

A **Mouse** is the most popular input device which is used today for interactive processing and for the one line entry of data for batch processing. The first computer mouse was invented by **Douglas Engelbart**.

Drag and Drop refers to the action of clicking and holding down the mouse button, while moving the mouse and then releasing the mouse button.

Joystick is the device that moves in all directions and controls the movement of a pointer.

A **Touch Screen** is a type of display screen device that is placed on the computer monitor to allow direct selection or activation of the computer when the user touches the screen. It acts as both input and output device.

Light Pen is the pen shaped device, which can sense light and is used to point at spots on a video screen.

A technology enables a high-speed reading of large quantities of data and transferring these data to the computer without using a keyboard. It is referred as **Optical Mark Reader (OMR)**. It uses a beam of light that is reflected on the paper with marks, to capture presence and absence of marks.

MICR reads the characters by examining their shapes in a matrix form and the information is then passed on to the computer. MICR stands for **Magnetic Ink Character Reader**. It provides a high level of security and is therefore used by the banking industry for faster processing of the cheque.

Bar Code is a machine readable code, which is represented by parallel vertical lines with varying widths. For reading these bar-coded data, a device is used, which is known as a Bar Code Reader (BCR)

Optical Character Recognition (OCR) is used to scan the document containing text. It is the mechanical or electronic conversion of scanned or photographed images of typewritten or printed text into machine-encoded/computer-readable text.

A **point of sale terminal (POS terminal)** is an electronic device used to process card payments at retail locations.

The device that prints information from the computer onto the paper is **Printer**.

The printed form of output is referred as **Hard Copy**. The form of output displayed on the screen is referred as **Soft Copy**.

Pages per Minute (PPM) is the unit used to count the speed of the printer.

On the basis of technology, printers are categorized into **Impact and Non-Impact Printers**.

Impact printers create an image by using some mechanism to physically press an inked ribbon against the page, causing the ink to be deposited on the page in the shape desired.

I) Dot matrix :- The dot-matrix printer uses print heads containing from 9 to 24 pins. These pins produce patterns of dots on the paper to form the individual characters

II) Daisy wheel:- A hammer strikes a "petal" containing a character against the ribbon, and the character prints on the paper. Its speed is slow typically 25-55 characters per second.

III) Line printer:- Line printers, or line-at-a-time printers, use special mechanism that can print a whole line at once; they can typically print the range of 1,200 to 6,000 lines per minute

IV) Drum printer:- A drum printer consists of a solid, cylindrical drum that has raised characters in bands on its surface. The number of print positions across the drum equals the number available on the page.

V) Chain printer:- A chain printer uses a chain of print characters wrapped around two pulleys

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VI) Band printer:- Band printer has a steel band divided into five sections of 48 characters each.

Non - Impact Printers do not touch the paper when creating an image.

I) Ink-jet printers:- One or more nozzles in the print head emit a steady stream of ink drops. Droplets of ink are electrically charged after leaving the nozzle. The droplets are then guided to the paper by electrically charged deflecting plates

II) Laser printers:- Laser printers use buffers that store an entire page at a time. When a whole page is loaded, it will be printed.

III) Thermal printer:- is a digital printing process which produces a printed image by selectively heating coated

thermo chromic paper, or thermal paper as it is commonly known, when the paper passes over the thermal print head.

A **plotter** is an output device that interprets commands from a computer to make line drawings on paper with one or more automated pens. Unlike a regular printer, the plotter can draw continuous point-to-point lines directly from vector graphics files or commands.

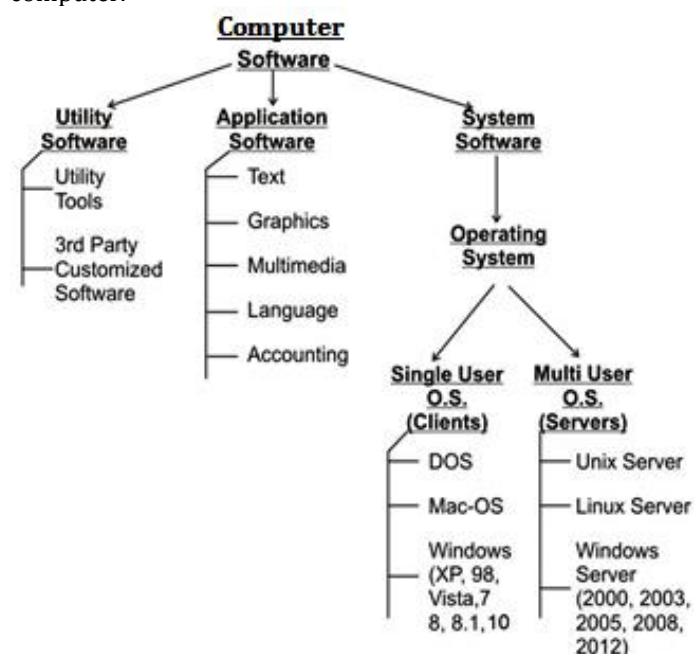
An **uninterruptible power supply (UPS)** is a device that allows a computer to keep running for at least a short time when the primary power source is lost.

A **Monitor** is a TV-like display attached to the computer on which the output can be displayed and viewed. It can either be a monochrome display or a color display. The number of pixels displayed on a screen is known as **Resolution**.

Software and Operating System

A set of instructions that tells the computer about the tasks to be performed and how these tasks are to be performed, is known as **Software**.

The set of instructions, which control the sequence of operations, are known as **Program**. It is a sequence of instructions, written to perform a specified task with a computer.



Application software is a group of program designed for fulfill the demand of end user e.g. MS office, PowerPoint, Windows Media Player.

System software is a program which is created for the system and to make the system user friendly such as operating system or is a type of computer program that is designed to run a computer's hardware and application programs.

Utility software designed to help analyze, configure, optimize or maintain a computer such antivirus software.

Operating system is a set of programs that help in controlling and managing the hardware and the software resources of a computer system. **Main functions of operating system are :-**

- Process management
- Memory management
- File management
- Security
- Command and interpretation
- Resource allocation

Types of OS.

1) Batch operating system : Here data and program that need to be processed are bundled and collected as a batch and executed together.

2) Multiprogramming operating system : It allows the instruction and data from two or more separate process to reside in primary simultaneously. Multiprogramming system are multitasking multiuser and multiprocessing operating system.

3) Single user : It is designed for single user and a single person use it at a time i.e. DOS window's 95 etc.

4) Distributed operating system : It is the one which manages a collection of independent computers and makes them appear to the user of the system as a single computer.

5) Real Time Operating System (RTOS) : It is a computing environment that reacts to input within a specific time period. It is used at those Places in which we Requires higher and Timely Response.

6) Time Sharing System: A time sharing system allows the many users to simultaneously share the computer resources. Since each action or command in a time-shared system take a very small fraction of time, only a little CPU time is needed for each user.

7) Mobile OS: Windows 10 Mobile is the latest name for Microsoft's phone and tablet operating system. Google's latest's version of its android OS is **Nougat** and iOS i.e. iPhone Operating System's latest version is **iOS 10**.

Computer Languages

Low level language: these are coded in a form which is easy to understand by the processor.

Machine language: it is also a type of low level language these can be develop in binary language (0 and 1) .

Assembly language: it is also a type of low level language and using the human readable instruction of the CPU. It is written as 'MOV A.'

High level language programmer can write code in simple easy language, it is user friendly . E.g. C, JAVA

C language: it is a middle level programming language and also known as procedural language

C++ is high level language that uses the OOPS concept.

Fortran: it is known as formula translation. It is used for scientific application

COBOL (Common Business Oriented Language): used for record keeping and data management in business organizations.

BASIC (Beginner's All Purpose Symbolic Instruction Code): first language designed for non-professional programmers.

PASCAL: it is developed as a teaching tool for programming concepts.

Simula was the first object-oriented programming language. **Java, Python, C++, Visual Basic .NET and Ruby** are the most **popular Object Oriented Programming languages**. The Java programming language is designed especially for use in distributed applications on corporate networks and the Internet. Ruby is used in many Web applications. **Curl, Smalltalk, Delphi and Eiffel** are also examples of object-oriented programming languages.

Language processor (Translator): Programmers write their program in one of the high level language because it is much easy to code in these language but computer does not understand any of these language so it is necessary to

convert program into a machine language so translator do this work.

Loader: It loads the code which is translated by translator into the main memory and makes it ready to execute.

Linker is used to combine all the object files and convert them into a final executable program.

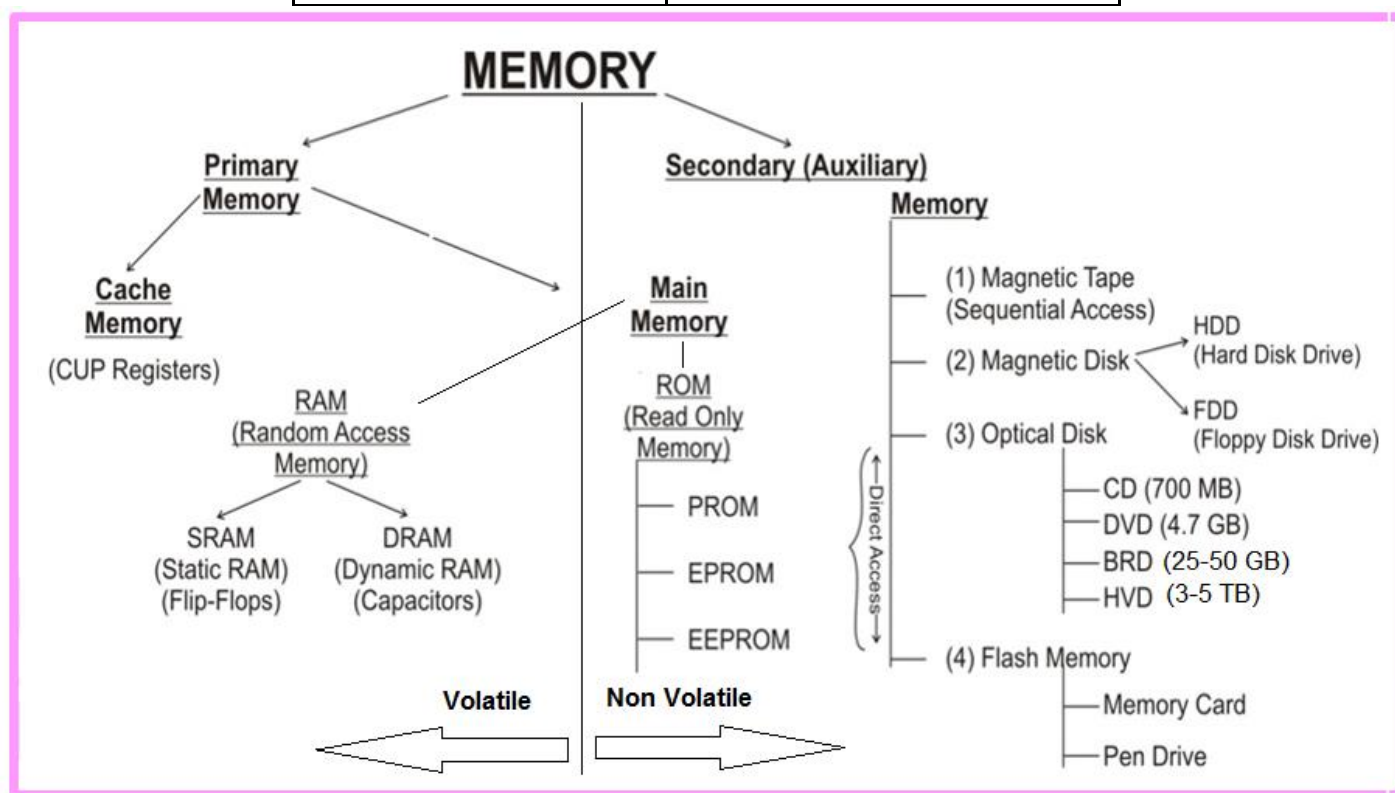
Interpreter converts high level language program into machine language. It is very slow because it convert program line by line.

Compiler: It also translates the program from high level language to machine language. It is very fast because it converts the whole program into machine language.

Assembler: It is used for converting the code of low level language (assembly language) into machine level language.

MEMORY MANAGEMENT

8 bit	1 byte
1024 Byte	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 XB	1 ZB (Zeta Byte)



A group of 4 bits is called a **nibble**. A byte is also known as an **Octet**.

Primary Storage (memory), also known as main storage and it is the area in a computer in which data is stored for quick access by the computer's processor. The terms random access memory (RAM) and memory are often as synonyms for primary or main storage. Primary storage is volatile and can be contrasted with non-volatile secondary storage, also known as auxiliary storage.

Cache memory is a smaller, faster memory which stores copies of the data from frequently used main memory locations. A CPU cache is a hardware cache used by the central processing unit (CPU) of a computer to reduce the average time to access data from the main memory.

Secondary memory is where programs and data are kept on a long-term basis. Common secondary storage devices are the hard disk and optical disks. The hard disk has enormous storage capacity compared to main memory. The hard disk is usually contained inside the case of a computer.

Read-only memory (ROM) is a storage medium used in computers and other electronic devices. Data stored in ROM can only be modified slowly or with difficulty, or not at all.

ROM is non-volatile and the contents are retained even after the power is switched off.

It only allows reading.

The types of ROM include PROM, EPROM and EEPROM.

PROM - (programmable read-only memory) is a memory chip on which data can be written only once.

The difference between a PROM and a ROM (read-only memory) is that a PROM is manufactured as blank memory, whereas a ROM is programmed during the manufacturing process. To write data onto a PROM chip, you need a special device called a PROM programmer or PROM burner.

EPROM - (erasable programmable read-only memory) is a special type of PROM that can be erased by exposing it to ultraviolet light.

EEPROM - (electrically erasable programmable read-only memory). EEPROM is a special type of PROM that can be erased by exposing it to an electrical charge.

Random Access Memory (RAM), allows the computer to store data for immediate manipulation and to keep track of what is currently being processed.

RAM is referred to as **volatile memory** and is lost when the power is turned off.

It also known as read/write memory as information can be read from and written onto it.

The two main types of RAM are **Static RAM** and **Dynamic RAM**.

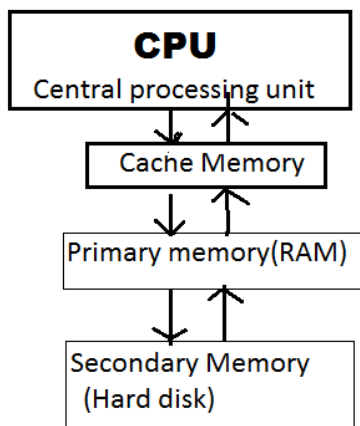
SRAM retains data as long as power is provided to the memory chip and need not be refreshed periodically. It is often used as CPU Cache memory. SRAM stands for Static Random Access Memory.

The data on **DRAM** continues to move in and out of the memory as long as power is available and must be

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continually refreshed to maintain the data. DRAM stands for Dynamic Random Access Memory.

Virtual memory is memory on the hard disk that the CPU uses as an extended RAM.



	Access Time	Storage Capacity	Cost per bit of storage
Primary memory	Faster	Smaller	High
Secondary memory	Slower	Higher	Low

Memory can also be categorized on the basis of their material:

Semiconductor memory:-such as RAM, ROM, EPROM, and flash memory.

Magnetic memory:-such as hard disk, floppy disk and magnetic tapes.

Optical memory:-such as computer disk, DVD and blue-ray disk.

A **bus**, in computing, is a set of physical connections (cables, printed circuits, etc.) which can be shared by multiple hardware components in order to communicate with one another.

The **address bus** (sometimes called the memory bus) transports memory addresses which the processor wants to access in order to read or write data. It is a unidirectional bus.

The **data bus** transfers instructions coming from or going to the processor. It is a bidirectional bus.

The **control bus** (or command bus) transports orders and synchronisation signals coming from the control unit and travelling to all other hardware components. It is a bidirectional bus, as it also transmits response signals from the hardware.

Number System

The **radix or base** is the number of unique digits, including zero, used to represent numbers in a positional numeral system. For example, for the decimal system the radix is ten, because it uses the ten digits from 0 through 9. And that of Binary is base 2.

Number System

Decimal, Binary, Octal and Hexadecimal Equivalents			
Decimal	Binary	Octal	Hexadecimal
0	0000	000	0
1	0001	001	1
2	0010	002	2
3	0011	003	3
4	0100	004	4
5	0101	005	5
6	0110	006	6
7	0111	007	7
8	1000	010	8
9	1001	011	9
10	1010	012	A
11	1011	013	B
12	1100	014	C
13	1101	015	D
14	1110	016	E
15	1111	017	F

Hexadecimal to Binary: Refer the above table for the conversion process

$(1A2)_{16} = (?)_2$
 $1=0001, A=1010, 2=0010$; Hence $(1A2)_{16} = (000110100010)_2$

Decimal to Binary: $(75)_{10} = (?)_2$

Divide 75 by 2 (and write down its remainder).

	75	
2	37	1
2	18	1
2	9	0
2	4	1
2	2	0
2	1	

Hence $(75)_{10} = (101011)_2$

Any number system to decimal:

Sum of all $(\text{Digit} \times (\text{Base})^{\text{Base's Place}})$

Example: $(1A2)_{16} = (?)_{10}$ (From the table you can refer A is equivalent to 10)

$((1 \times 16^2) + (10 \times 16^1) + (2 \times 16^0)) = 256 + 160 + 2 = 418$

Example: $(110110)_2 = (?)_{10}$

$((1 \times 2^5) + (1 \times 2^4) + (0 \times 2^3) + (1 \times 2^2) + (1 \times 2^1) + (0 \times 2^0)) = 32 + 16 + 4 + 2 = 54$; $(110110)_2 = (54)_{10}$

Octal to Binary: $(345)_8 = (?)_2$ (Write down 3 bit binary equivalents of all digits)

$3=011, 4=100, 5=101$; Hence $(345)_8 = (011100101)_2$

Octal to Hexadecimal: Convert to Binary first and then group 4 bits to get hexadecimal number. Example: $(345)_8$

$= (?)_{16} \Rightarrow (345)_8 = (011100101)_2 = 0000\ 1110\ 0101 = (0E5)_{16}$

Computer Network

Different types of network are: LAN, MAN and WAN.

A **LAN (local area network)** is a group of computers and network devices connected together, usually within the same building. By definition, the connections must be high speed and relatively inexpensive (e.g., token ring or Ethernet).

A **MAN (metropolitan area network)** is a larger network that usually spans several buildings in the same city or town.

A **WAN (wide area network)**, in comparison to a MAN, is not restricted to a geographical location, although it might be confined within the bounds of a state or country. A WAN connects several LANs, and may be limited to an enterprise (a corporation or an organization) or accessible to the public. The technology is high speed and relatively expensive. The Internet is an example of a worldwide public WAN.

A **personal area network (PAN)** is a computer network used for data transmission amongst devices such as computers, telephones, tablets and personal digital assistants.

Campus Area Network or corporate area network is a computer network made up of an interconnection of local area networks (LANs) within a limited geographical area.

A **Storage Area Network (SAN)** is a specialized, high-speed network that provides block-level network access to storage.

A **virtual private network (VPN)** extends a private network across a public network, such as the Internet. It enables users to send and receive data across shared or public networks as if their computing devices were directly connected to the private network.

Networking Devices

Modem: Modem stands for Modulator-Demodulator. It is used to connect computers for communication via telephone lines.

Hub: It works at the Physical layer. It just acts like a connector of several computers i.e. simply connects all the devices on its ports together. It broadcasts all the data packets arriving at it with no filtering capacity.

Switch: It works at the Data Link Layer. It is used for dividing a network into segments called subnets. It provides filtering of data packets and prevents network traffic also.

Repeater: It operates at the Physical Layer. It is used to amplify a signal that has lost its original strength so as to enable them to travel long distances.

Router: It works at the Network Layer and is used to connect different networks that have different architectures and protocols. It sends the data packets to desired destination by choosing the best path available thus reducing network traffic.

Gateway: It operates in all the layers of the network architecture. It can be used to connect two different networks having different architectures, environment and even models.

Bridge: They are used to connect two LANs with the same standard but using different types of cables. It provides an

intelligent connection by allowing only desired messages to cross the bridge thus improving performance. It uses physical addresses of the packets for this decision.

IPv4 - 32 bits numeric address

IPv6 - 128 bits hexadecimal address

IPv6 does not use broadcast messages and has three types of addresses, which are categorized as :

Unicast addresses. A packet is delivered to one interface.

Multicast addresses. A packet is delivered to multiple interfaces.

Anycast addresses. A packet is delivered to the nearest of multiple interfaces (in terms of routing distance).

With an IPv4 IP address, there are five classes of available IP ranges: Class A, Class B, Class C, Class D and Class E, while only A, B, and C are commonly used. Each class allows for a particular range of valid IP addresses. Class D is reserved for multicast groups and Class E is reserved for future use, or Research and Development Purposes.

Data Communication deals with the transmission of digital data from one device to another. Data is transferred through a pathway called as communication channel which can be physical wire connecting the devices or may be unguided media like laser, microwave etc.

A communication channel has a source or transmitter at one side and a designation or receiver at another side of the network. The source of data origination is single but there may be multiple receivers. A communication channel is of 3 types:

Simplex: This, communication is unidirectional i.e. one of the two devices can transmit the data and the other can only receive the data. For **e.g. Radio broadcasting, television broadcasting etc.**

Half duplex: This communication is bidirectional. Either of the devices can act as transmitter or receiver but only one device can transmit the data at one time. For **e.g. Walkie-Talkie.**

Full Duplex: Here the communication is in both directions and both the devices can simultaneously transmit the data. For **e.g. Telephone conversation.**

The **Open Systems Interconnection model (OSI)** is a conceptual model that characterizes and standardizes the internal functions of a communication system by partitioning it into abstraction layers. The model is a product of the Open Systems Interconnection project at the **International Organization for Standardization (ISO).**

7	APPLICATION LAYER (Network Process to Application)	Data
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6	PRESENTATION LAYER (Data Representation & Encryption)	Data	Transmission)
5	SESSION LAYER (Inter-host Communication)	Data	
4	TRANSPORT LAYER (End-to-end connections & reliability)	Segments	
3	NETWORK LAYER (Path Determination and IP)	Packets	
2	DATA LINK LAYER (Physical Addressing)	Frames	
1	PHYSICAL LAYER (Media, Signal and Binary)	Bits	

Network topology is the arrangement of the various elements (links, nodes, etc.) of a computer network. There are two basic categories of network topologies:

≈ Physical topologies and Logical topologies.

Physical topology is the placement of the various components of a network, including device location and cable installation, while **Logical topology** illustrates how data flows within a network, regardless of its physical design. Various types of topologies are:

Bus Topology		Every computer and network device is connected to single cable.
Star Topology		All the computers are connected to a single hub through a cable. This hub is the central node and all others nodes are connected to the central node.
Ring Topology		Each computer is connected to another computer, with the last one connected to the first. Exactly two neighbors for each device.
Mesh Topology		It is a point-to-point connection to other nodes or devices. All the network nodes are connected to each other
Tree Topology		It has a root node and all other nodes are connected to it forming a hierarchy. It is also called hierarchical topology.

Hybrid topology uses a combination of any two or more topologies in such a way that the resulting network does not exhibit one of the standard topologies.

Cloud computing is a type of Internet-based computing that provides shared computer processing resources and data to computers and other devices on demand.

Public clouds are owned and operated by companies that offer rapid access over a public network to affordable computing resources.

A **private cloud** is infrastructure operated solely for a single organization, whether managed internally or by a third party, and hosted either internally or externally.

A **hybrid cloud** uses a private cloud foundation combined with the strategic integration and use of public cloud services.

Google Drive is a personal cloud storage service from Google which gives every user 15 GB of Drive storage space. OneDrive is Microsoft's service for hosting files in the "cloud computing". OneDrive offers 5GB of storage space for free.

Internet

The **Internet** is a global system of interconnected computer networks that use the standard Internet protocol suite (TCP/IP) to link several billion devices worldwide.

It is a **network of networks** that consists of millions of private, public, academic, business, and government networks, of local to global scope, that are linked by a broad array of electronic, wireless, and optical networking technologies.

ARPANET adopted TCP/IP in 1983, and from there researchers began to assemble the "network of networks" that became the modern Internet.

The **World Wide Web** (abbreviated as WWW or W3, commonly known as the Web) is a system of interlinked hypertext documents that are accessed via the Internet.

A **Website** is a set of related web pages served from a single web domain.

A **Home page, index page, or main page** is a page on a website. A home page usually refers to:

- The initial or main web page of a website, sometimes called the "front page" (by analogy with newspapers).
- The first page that appears upon opening a web browser program, which is also sometimes called the start page. This 'start page' can be a website or it can be a page with various browser functions such as the visual display of websites that are often visited in the web browser.
- The web page or local file that automatically loads when a web browser starts or when the browser's "home" button is pressed; this is also called a "home page". The user can specify the URL of the page to be loaded, or alternatively choose e.g. to re-load the most recent web page browsed.
- A personal web page, for example at a web hosting service or a university web site that typically is stored in the home directory of the user.

A **Hyperlink** is a reference to data that the reader can directly follow either by clicking or by hovering or that is followed automatically

A **web browser** (commonly referred to as a browser) is a software application for retrieving, presenting and traversing information resources on the World Wide Web.

Some of the famous browsers are **Safari, Chrome, Firefox, Bolt, UC Browser** and **Internet Explorer**

The **Uniform Resource Locator**, abbreviated as URL is a specific character string that constitutes a reference to a resource. In most web browsers, the URL of a web page is displayed on top inside an address bar.

(i) An example of a typical URL would be "http://www.bankersadda.com".

Here the **domain name** is 'bankersadda.com'

Downloading means to receive data to a local system from a remote system or to initiate such a data transfer

Uploading refers to the sending of data from a local system to a remote system such as a server or another client with

the intent that the remote system should store a copy of the data being transferred

An **Internet Protocol address** (also known as an **IP address**) is a numerical label assigned to each device (e.g., computer, printer) participating in a computer network. It acts as an identifier for a computer. It is a unique address for every computer.

Domain names are used to identify one or more IP addresses.

The **universal resource locator**, or URL, is an entire set of directions, and it contains extremely detailed information. The domain name is one of the pieces inside of a URL.

Domain Types

Type	Description
com	Commercial and for profit organization
edu	Educational provider, college, Universities
gov	Government agencies
Mil	US military sites
net	Internet infrastructure and service providers
org	Miscellaneous and Non-profit organisations

An **email attachment** is a computer file sent along with an email message. One or more files can be attached to any email message, and be sent along with it to the recipient.

Hotmail was co-founded by an Indian American entrepreneur Sabeer Bhatia along with Jack Smith in July of 1996

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CC (Carbon Copy) in e – mail indicates those who are to receive a copy of a message addressed primarily to another.

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The list of CC recipients is visible to all other recipients of the message.

An additional **BCC (blind carbon copy)** field is available for hidden notification; recipients listed in the BCC field receive a copy of the message, but are not shown on any other recipient's copy (including other BCC recipients)

The **Drafts folder** retains copies of messages that you have started but are not yet ready to send.

The first email was sent by **Ray Tomlinson** to himself in 1971.

Internet Explorer was deprecated in Windows 10, with **Microsoft Edge** replacing it as the default web browser.

Computer Security

A **Computer Virus** is a computer program or code that can replicate itself and spread from one computer system to another system. A computer virus has the capacity to corrupt or to delete data on your computer and it can utilize an e-mail program to spread the virus to other computer systems. In the worst case scenario, it can even delete everything on your hard disk. The purpose of it is to disrupt the operation of the computer or the program.

Some examples of Computer Virus are **Trojan viruses, Stealth viruses, worms, malware (malicious software), Disk Killer, Stone virus, Sunday, Cascade, Nuclear, Word Concept, etc.**

Malware, short for **malicious software**, is any software used to disrupt computer operation, gather sensitive information, or gain access to private computer systems. It can appear in the form of executable code, scripts, active content, and other software.

Antivirus Software is used to scan the hard disk to remove the virus from them. Some of the famous anti - viruses available are Avast, Norton, Avira, Kaspersky, AVG, etc.

A person who uses his or her expertise to gain access to other people's computers to get information illegally or do damage is a **Hacker**.

Authorization is the function of specifying access rights to resources related to information security and computer security in general and to access control in particular. More formally, "to authorize" is to define an access policy.

Authentication is the act of confirming the truth of an attribute of a single piece of data or entity. It might involve confirming the identity of a person by validating their identity documents, verifying the validity of a website with a digital certificate, tracing the age of an artifact by carbon dating, or ensuring that a product is what its packaging and labeling claim to be. In other words, Authentication often involves verifying the validity of at least one form of identification.

Phishing is the attempt to acquire sensitive information such as usernames, passwords, and credit card details (and sometimes, indirectly, money) by masquerading as a trustworthy entity in an electronic communication.

A **Spoofing attack** is a situation in which one person or program successfully represents oneself as another by falsifying data and thereby gaining an illegitimate advantage.

Microsoft Office

Microsoft Office is an office suite of desktop applications, servers and services for the Microsoft Windows and Mac operating systems. It includes Microsoft Word, Excel, PowerPoint, Outlook, OneNote, Access and Publisher.

Note: Microsoft Windows Vista was an windows OS for PC not Office Suit.

Office 365 is a subscription service that includes the most recent version of Office, which currently is Office 2016. It comes with the applications you're familiar with, like Word, PowerPoint, and Excel, plus extra online storage, ongoing tech support.

MS WORD

Microsoft Word is a word processor developed by Microsoft.

It is used for creating, editing, formatting, storing, retrieving and printing of a text document.

Microsoft Word's native file formats are denoted either by a **.doc** or **.docx** file extension.

A **Cursor** is an indicator used to show the position on a computer monitor or other display device that will respond to input from a text input or pointing device.

	Editing
Insert	Pages, Tables, Illustrations, Links, Header & Footer, Text, Symbols(and Equations)
Page Layout	Themes, Page Setup(includes margins, orientation, breaks etc.), Page Background(includes watermark and borders), Paragraph, Arrange
References	Table of Content, Footnotes, Citation and Bibliography, Captions, Index, Table of Authorities

Home | Clipboard, Font, Paragraph, Styles,

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Mailings	Create(Envelops & Labels), Start Mail Merge
Review	Proofing (Spelling & Grammar, Research, Thesaurus, Word Count), Language (and Translate), Comments, Tracking, Changes, Compare, Protect
View	Document Views, Show, Zoom, Window, Macro
Design	Table Style Options, Table Styles, Draw Borders
Layout	Tables, Rows & Columns, Merge, Cell Size, Alignment, Data

Basic Keys (Common Tasks)

Ctrl + N	Create a new document
Ctrl + B	Make letters bold
Ctrl + I	Make letters italic
Ctrl + U	Make letters underline
Ctrl + Shift+ <	Decrease font size one value
Ctrl + Shift + >	Increase the font size one value
Ctrl + [Decrease the font size by 1 point
Ctrl +]	Increase the font size by 1 point
Ctrl+ Spacebar	Remove paragraph or character formatting.
Ctrl + C	Copy the selected text or object
Ctrl + X	Cut the selected text or object
Ctrl + V	Paste text or an object
Ctrl + Alt + V	Paste special
Alt+ Ctrl + S	Split the document Window
Ctrl + Z	Undo the last action
Ctrl + Y	Redo the last action

To create a document, we use **New command** at the menu.

Save as is used to save a document for the first time. It is also used to change the destination of the saved file in the computer.

Print Preview is used to see the document before the printout is taken.

Cut and Paste options are used to move the data from one part of the document to another.

Control Keys + Function keys

Ctrl+F2	Choose the print preview command (Microsoft office Button)
Ctrl+F3	Cut on the spike
Ctrl+F4	Close the window
Ctrl+F6	Go to the next window
Ctrl+F9	Insert an empty field
Ctrl+F10	Maximise the document window
Ctrl+F11	Lock a field
Ctrl+F12	Choose the Open command (Microsoft Office Button)

Portrait and Landscape options are available in **Orientation** category of Page Setup.

Alignment refers to the position of text between the margins.

Auto complete is a feature in word that automatically completes the spelling of days of the week and months of the year that have more than five letters in their names.

Function Keys

F1	Get help or visit Microsoft office Online.
F2	Move text or graphic.
F4	Repeat the last action
F5	Choose the Go To command (Home tab).
F6	Go to the next pane or frame.
F7	Choose the spelling command (Review tab)
F8	Extend a selection
F9	Update the selected fields
F10	Show key tips
F11	Go to the next field
F12	Choose the Save As command (Microsoft Office Button).

Header and Footer option is used to display information such as title and page number of the document.

The bar at the top of the window that bears the name of the window, is known as **Title Bar**.

A screen element of MS Word that is usually located below the title bar that provides categorized options is called **Menu Bar**.

Auto Correct in word automatically corrects certain spelling, typing, capitalisation or grammar errors.

Thesaurus is used for finding a synonym for a word in the document.

Word has extensive lists of **bullets and numbering** features used for tables, lists, pages, chapters, headers, footnotes, and tables of content.

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MS EXCEL

Microsoft Excel is a spreadsheet application developed by Microsoft for Microsoft Windows and Mac OS.

It features calculation, graphing tools, pivot tables, and a macro programming language called Visual Basic for Applications.

The intersection of a row and column is called a **Cell**.

The cell in which we are currently working is known as **Active Cell**.

Microsoft Excel's native file formats are denoted either by a .xls or .xlsx file extension.

A Worksheet is made of columns and rows, wherein columns run **Vertically** and rows run **Horizontally**.

Up to Excel 2003, the standard amount of columns has been 256 and 65,536 rows.

Excel 2007 onwards, the maximum number of rows per worksheet increased to 1,048,576 and the number of columns increased to 16,384.

Microsoft Excel has the basic features of all spreadsheets, using a grid of cells arranged in numbered rows and letter-named columns to organize data manipulations like arithmetic operations

The letter and number of the intersecting column and row is the **Cell Address**.

Short cut key to insert a new worksheet in MS-Excel is **ALT + Shift + F1** or **F11**.

Sheet tab is the tab at the bottom of the worksheet window that displays the name of the worksheet.

A Microsoft office document that contains one or more worksheets is known as a **Workbook**.

Shortcut Keys of MS-Excel

Key	Description
F2	Edit the selected cell
F5	Go to a specific cell
F7	Spell check selected text and/or document
F11	Create chart
Ctrl + Shift + ;	Enter the current time
Ctrl + ;	Enter the current date
Shift + F3	Open the Excel insert function window
Shift + F5	Bring up Find and Replace box.
Ctrl + A	Select all contents of the worksheet
Ctrl + B	Bold highlighted selection
Ctrl + I	Italic highlighted selection
Ctrl + U	Underline highlighted selection
Ctrl + P	Bring up the print dialog box to begin printing
Ctrl + Z	Undo last action
Ctrl + F9	Minimise current workbook
Ctrl + F10	Maximise currently selected workbook
Ctrl + F6	Switch between open workbooks/window
Ctrl + page up	Move between Excel worksheet in the same Excel document.
Ctrl + Page Down	Move between Excel worksheets in the same Excel document
Ctrl + Tab	Move between two or more open Excel files
Alt + =	Create a formula to sum all of the above cells
Ctrl + '	Insert the value of the above cell into cell currently selected.
Ctrl + Arrow key	Move to next section to text
Ctrl + Space	Select entire column
Shift + Space	Select entire row

PowerPoint

- **Microsoft PowerPoint** is a slide show presentation program developed by Microsoft. It was officially launched on May 22, 1990, as a part of the Microsoft Office suite.
- Filename extension: .ppt, .pptx, .pps or .ppsx

Ribbon

The Ribbon is the strip of buttons across the top of the main window. The Ribbon has tabs which in turn contain groups of buttons for various options - some groups also contain galleries (for example galleries for Themes and Theme Colors.)

Slides/Outline Pane

Normally placed on the left side of the interface, this pane contains two tables - the Slides tab and Outline tab.

Status Bar

A horizontal strip at bottom; that provides information about the open presentation like slide number, applied Theme, etc. It also includes the view and zoom options.

View Buttons

Essentially there are three view buttons displayed right beneath on the status bar with zoom-in and zoom-out.

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- **Normal view** - Clicking this enables Normal view, Shift-clicking this gets you to Slide Master view.
 - **Slide Sorter view** - Clicking this displays zoom-able thumbnails of every slide in the open presentation Shift-clicking this button gets you to Handout Master view.
 - **Slide Show from current slide** - Show the presentation as a full screen slideshow from the current selected slide.
- Slide Area:** Displays the active slide
Task Pane: It contains more options and appears when you choose an option in one of the Ribbon tabs.

SHORTCUTS OF POWERPOINT

To do this	Press
Start the presentation from the beginning	F5
Perform the next animation for advance to	N, ENTER, PAGE DOWN, RIGHT,

the next slide	ARROW, DOWN ARROW, or SPACEBAR
Perform the previous animation or return to the previous slide	P, PAGE UP, LEFT ARROW, UP ARROW, or BACKSPACE
Go to slider number	number + ENTER
End a presentation	ESC or HYPHEN
Return to the first slide	1 + ENTER
Redisplay hidden pointer or change the pointer to a pen	CTRL + P
Redisplay hidden pointer or change the pointer to an arrow	CTRL + A
Go to the first or next hyperlink on a slide	TAB
Go to the last or previous hyperlink on a slide	SHIFT + TAB

DATABASE MANAGEMENT SYSTEM

DBMS is the acronym of **Data Base Management System**. DBMS is a collection of interrelated data and a set of programs to access this data in a convenient and efficient way. It controls the organization, storage, retrieval, security and integrity of data in a database.

Types of Database Model: Network Database Model, Hierarchical Database model, Relational Database Model and Object-Oriented Database Model.

Architecture of DBMS-The generalized architecture of DBMS is called ANSI/ SPARC model. The architecture is divided into three levels:

- **External view or user view/View Level-** It is the highest level of data abstraction. This includes only those portions of database of concern to a user or Application program. Each user has a different external view and it is described by means of a scheme called external schema.
- **Conceptual view/Logical Level-** All the database entities and the relationship among them are included. One conceptual view represents the entire database called conceptual schema.
- **Internal view/Physical Level-** It is the lowest level of abstraction, closest to the physical storage method. It describes how the data is stored, what is the structure of data storage and the method of accessing these data. It is represented by internal schema.

Data model: A data model is a plan for building a database. The model represents data conceptually, the way the user

sees it, rather than how computers store it. Data models focus on required data elements and associations.

- Entity – Relationship Model
- Relational Model

Entity: A thing (animate or inanimate) of independent physical or conceptual existence and distinguishable. In the University database context, an individual student, faculty member, a class room, are entities.

Attributes: Each entity is described by a set of attributes/properties.

SQL (Structured Query Language) is a database computer language designed for the retrieval and management of data in relational database.

Constraints: In SQL, we have the following constraints-

NOT NULL - Indicates that a column cannot store NULL value
UNIQUE - Ensures that each row for a column must have a unique value

CHECK - Ensures that the value in a column meets a specific condition

DEFAULT - Specifies a default value for a column

Primary Key uniquely identifies a record in a table.

A **candidate key** is a single field or the least combination of fields that uniquely identifies each record in the table.

A **foreign key** is generally a primary key from one table that appears as a field in another.

DDL: Data Definition Language is used for specifying the database schema. It contains commands to create tables, alter the structure, delete tables or rename tables. E.g. Create

DML: Data Manipulation Language is used for accessing and manipulating data in a database. E.g. Select, Update

DCL: Data Control Language is used for granting and revoking user access on a database.

FULL FORMS & ABBREVIATIONS

TCP Transmission Control Protocol
 FTP File Transfer Protocol

TFTP Trivial File Transfer Protocol
 SFTP Secure File Transfer Protocol

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SMTP	Simple Mail Transfer Protocol	TFT	Thin Film Transistor
HTTP	Hyper Text Transfer Protocol	CRT	Cathode Ray Tube
HTTPS	Hyper Text Transfer Protocol Secure	MIDI	Musical Instrument Digital Interface
UDP	User Datagram Protocol	MPEG	Moving Picture Expert Group
ARP	Address Resolution Protocol	PDA	Personal Digital Assistants
Tel Net	Telecommunication Networking	PDF	Portable Document Format
POP3	Post Office Protocol Version3	ARPANET	Advanced Research Projects Agency
BGP	Border Gateway Protocol		Network
P2P	Point to Point Protocol	SQL	Structured Query Language
PPP	Peer to Peer Protocol	USB	Universal Serial Bus
IP	Internet Protocol	VIRUS	Vital Information Resource Under Siege
SNMP	Simple Network Management Protocol	VOIP	Voice Over Internet Protocol
NTP	Network Time Protocol	IVR	Interactive Voice Response
SIP	Session Initiation Protocol	WIFI	Wireless fidelity
DHCP	Dynamic Host Configuration Protocol	WIMAX	Worldwide Interoperability for Microwave
IMAP4	Internet Message Access Protocol Version 4		Access
RARP	Reverse Address Resolution Protocol	ADSL	Asymmetric Digital Subscriber Line
SSH	Secure Shell	API	Application Program Interface
MIME	Multipurpose Internet Mail Extension	ARP	Address Resolution Protocol
SMIME	Secure MIME	RARP	Reverse ARP
ALGOL	Algorithmic Language	ICANN	Internet Corporation of Assign Names &
ANSI	American National Standard Institute		Numbers
ATM	Asynchronous Transfer Mode	DPI	Dots Per Inch
AS	Autonomous System		
BASIC	Beginners All Purpose Symbolic Instruction Code		
BIOS	Basic input Output System		
BPS	bit Per Second		
DNS	Domain Name Server		
EDI	Electronic Data Interchange		
URL	Uniform Resource Locator		
GIF	Graphics Interchange Format		
ASCII	American Standard Code for Information Interchange		
ASP	Active Server Pages		
BCC	Blind Carbon Copy		
CC	Carbon copy		
CAD	Computer Aided Design		
CDMA	Code Division Multiple Access		
GSM	Global System for Mobile Communication		
CMOS	Complementary Metal Oxide Semi-Conductor		
CMYK	Cyan Magenta Yellow Block	DSL	Digital Subscriber Line
GPS	Global Positioning System	FAT	File Allocation Table
GUI	Graphical User Interface	MANET	Mobile Ad-Hoc Network
HDMI	High Definition Multimedia Interface	MIPS	Million Instruction Per Second
GIGO	Garbage in Garbage Out	BIPS	Billion Instruction Per Second
LIFO	Last In First Out	TIPS	Trillion Instruction Per Second
FIFO	First In First Out	NAT	Network Address Translation
PING	Packet Internet Gopher	IEEE	Institute of Electrical and Electronic Engineer
HDD	Hard Disc Drive	IMAP	Internet Message Access Protocol
NIC	Network Interface Controller/Cord	ISDN	Integrated Servers Digital Network
HDTV	High Definition Television	ISO	International Standard Organization/
ISP	Internet Service Provider		International Org for Standardization
JPEG	Joint Picture Expert Group	DHTML	Dynamic Hyper Text Markup Language
LCD	Liquid Crystal Display	MAC	Media Access Control
LED	Light Emitting Diode		

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CAN	Campus Area Network	PCB	Printer Circuit Board
PAN	Personal Area Network	SRAM	Static RAM
SAN	Storage Area Network	DRAM	Dynamic RAM
CNM	Circulatory Network Mode	PROM	Programmable ROM
IPV4	Internet Protocol Version 4	EPROM	Electrically PROM
IPV6	Internet Protocol Version 6	EEPROM	Electrically Erasable PROM
DBMS	Data Base Management System	HDD	Hard Disc Drive
MODEM	Modulator Demodulator	FDD	Floppy Disc Drive
RAM	Random Access Memory	CD	Compact Disc
ROM	Read Only Memory	DVD	Digital Video/Versatile Disc
SMPS	Switch Mode Power Supply	BRD	Blu Ray Disc
OMR	Optical Mark Reader / Recognition	HVD	Holographic Versatile Disc
OCR	Optical Character Reader / Recognition	ACID	Atomicity Consistency Isolation Durability
BCR	Bar Code Reader	WYSIWYG	What you see is what you get
MICR	Magnetic Ink Character Reader / Recognition		

GLOSSARY

A

- **Access time** - The amount of time it takes for requested information to be delivered from disks and memory.
- **Antivirus software** - A program designed to look for and destroy viruses that may infect the memory of a computer or files stored on a computer.
- **Artificial intelligence (AI)** - Computer systems that attempt to imitate human processes for analyzing and solving problems.
- **Accumulator** - A local storage area called a Register, in which the result of an arithmetic or logic operation is formed.

B

- **BIT** - It is basic unit of computers. It has two values 1 & 0 only.
- **BYTE** - Combination of 8 Bits.
- **Basic Input Output System (BIOS)** - Also known as ROM BIOS. It provides an abstraction layer for the hardware, i.e., a consistent way for application programs and operating system to interact with input/output devices.
- **Bug** - A software bug is an error, flaw, failure, or fault in a computer program or system produces an incorrect or unexpected result.
- **Bus** - A pathway along which electronic signals travel between the components of a computer system.

C

- **Cookie** - A packet of information that travels between a browser and the web server.
- **Crash** - Your computer or application no longer works correctly and so you "lose" all the work you've done since the last time you saved.
- **Command** - An instruction that causes a program or computer to perform a function.
- **Cache** - It is a memory storage area that keeps frequent use data readily available to the computer so that the computer does not retrieve them from slow storage devices.

- **Clock Speed** - The speed of computer is measured in clock speed. High clock speed is synonymous with high processing capability. It is measured in Megahertz (MHz).
- **Column** - A vertical block of cells in a table or spreadsheet.

D

- **Delete** - To remove an item of data from a file or to remove a file from the disk.
- **Debugging** - Locating and eliminating defects in a program.
- **Desktop** - The electronic work area on a display screen.
- **Dots Per Inch (DPI)** - It is defined as the measure of the resolution of a printer and scanner, or monitor.
- **Domain Name** - A unique name that identifies a particular website and represents the name of the server where the web pages reside.

E

- **Edit** - To make certain changes in existing data.
- **Ethernet Card** - A network adapter that enables a computer to connect to an Ethernet.

F

- **Fax** - A shortened form of the word facsimile. A copy of a document transmitted electronically from one machine to another.
- **File transfer protocol (FTP)** - A set of guidelines or standards that establish the format in which files can be transmitted from one computer to another.
- **Firewall** - A security system usually consisting of hardware and software that prevents unauthorized persons from accessing certain parts of a program, database, or network.
- **Flash Memory** - It is a type of non-volatile computer storage chip that can be electrically erased and reprogrammed. It was developed by EEPROM.

G

- **Gateway** - A machine that links two networks using different protocols.

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- **Gigabyte** - A measurement of the storage capacity of a device. One gigabyte represents 1024 megabytes.
- **Google** - search engine on the web.
- **Gopher** - A protocol used for locating and transferring information on the internet. It is an internet search tool that allows users to access textual information.
- **GUI** - Graphical User Interface uses icons and menus to carry out commands such as opening files, delete files, move files etc..
- **Graphic Interchange Format (GIF)** - A simple file format for pictures and photographs that are compressed so that they can be sent quickly.

H

- **Hard copy** - Text or graphics printed on paper; also called a printout.
- **Hard disk** - A rigid type of magnetic medium that can store large amounts of information.
- **Hyperlink** - An image or portion of text on a webpage which is linked to another webpage.
- **Hub** - A network device that connects multiple computers on a LAN so that they can communicate with another network and the internet.
- **Header** - Repetitive information that appears at the top (the head) of every page of a document.
- **Hypertext transfer protocol (HTTP)** - The protocol used on the World Wide Web that permits Web clients (Web browsers) to communicate with Web servers

I

- **Icons** - In a graphical user interface (GUI), a small, pictorial, on screen representation of an object, such as a document, program, folder or disk drive.
- **Instant messaging (IM)** - A chat program that lets people communicate over the Internet in real time.
- **Internet protocol (IP) address** - A unique set of numbers that identifies a computer over a network.
- **Internet service provider (ISP)** - An organization that provides access to the Internet for a fee.
- **Intranet** - A private network established by an organization for the exclusive use of its employees. Firewalls prevent outsiders from gaining access to an organization's intranet

J

- **JPEG** - Joint Photographic Experts Group. A format for storing complex graphics in compressed form.
- **Justification** - Aligning lines of text at the left margin, the right margin, both margins, and the centre. Text aligned at both margins is considered fully justified.

K

- **Keyboard** - The device used to enter information into a computer.
- **Kilobyte** - A measurement of the storage capacity of a device. One kilobyte represents 1024 bytes.

L

- **LAN** - A local area network (LAN) is a computer network that interconnects computers within a limited area such

as a home, school, computer laboratory, or office building, using network media.

- **Laptop computer** - A portable computer. Also known as a notebook computer.
- **Landscape Orientation** - The positioning of the page so that the information is printed across the long dimension of the page.
- **Liveware** - It is a term to describe the human system, opposed to hardware or software in a computer.

M

- **Macro virus** - A type of virus that attaches itself to documents or word processing templates.
- **Malware** - Software that disrupts normal computer functions or sends a user's personal data without the user's authorization.
- **Memory** - The part of a computer that stores information.
- **Memory Cell** - A circuit in memory that represents a single bit of information.
- **Mass Storage** - Storage systems that provide access to hundreds of billions of bytes of stored data. They are often referred to as Archival Storage because of the very large volumes of historical or backup data they can store.
- **MIPS** - An acronym derived from millions of instructions per second. Used to measure the speed of a processor.
- **Morphing** - The transformation of one image into another image.
- **Mobile Commerce (m-Commerce)** - A form of e-commerce that has the ability to conduct monetary transactions via a mobile device such as a cell phone.
- **Mozilla** - a web browser and successor to Netscape Communicator.
- **Multitasking** - The ability of a computer to execute more than one program at a time.

N

- **NIBBLE** - Combination of four bits.
- **Network** - A system of interconnected computers. They are of three types i. e. LAN, MAN, WAN.
- **Network Interface Card (NIC)** - This is a part of the computer that allows it to talk to other computers via a network protocol like TCP/IP.
- **Node** - A computer which is attached to the network. Each node has its own address on the network so that it can be uniquely identified and can communicate with other nodes on the same or different network.

O

- **Offline** - Refers to the state in which a computer is temporarily or permanently unable to communicate with another computer.
- **Online** - Refers to the state in which a computer is ready to communicate with other computers.
- **Open source software** - Software that makes the underlying source code available to all users at no charge.
- **Operating system (OS)** - Software that manages the internal functions and controls the operations of a computer.

P

- **Palmtop computer** - A portable computer smaller than a notebook (or laptop) computer that fits on the palm of your hand. Also called a handheld computer.
- **Password** - A user's secret identification code, required to access stored material. A procedure intended to prevent information from being accessed by unauthorized persons.
- **Piracy** - The illegal copying of software or other creative works.
- **Peripherals** - A connectable device that has an auxiliary function outside the permanent system configuration such as plotters, printers and graphic displays.
- **Phishing** - A type of computer fraud that tries to trick users into revealing their passwords and other confidential information.
- **Pixel** - A smallest picture element of a digital image. The smaller the pixels, the higher the resolution.
- **Port** - An electrical connection on the computer into which a cable can be plugged so that the computer can communicate with other devices such as printer or modem.
- **Protocol** - A set of rules and regulations that coordinates the exchange of information over the network.
- **Portrait orientation** - Positioning paper so that information is printed across the short dimension of the paper.

Q

- **Query** - An alternate pipe form of operating system, which handles data in the form of messages rather than bytes.
- **Qwerty** - It is one of the standard computer keyboard, with the character Q, W, E, R, T, Y on the top row of letters on the keyboard.

R

- **Response time** - The time a computer takes to execute a command.
- **Retrieve** - To call up information from memory or storage so that it can be processed in some way.
- **Record** - A collection of all the information pertaining to a particular subject.
- **Row** - A horizontal block of cells in a table or spreadsheet.
- **Resolution** - Measurement of the degree of sharpness of a displayed image. It is defined as number of pixels per square inch on a computer generated display.
- **Register** - A temporary storage unit for quick, direct accessibility of a small amount of data for processing.

S

- **Save As** - Give the file a name and/or store the file in a certain place.
- **Save** - Tell the computer to create a file on disk that has the information you've put into the document.
- **Scroll bar** - Allows you to move around through your document.

- **Shut down** - To quit all applications and turn off the computer.
- **Spam** - unwanted repetitious messages, such as unsolicited bulk e-mail.
- **Scanner** - An input device that can copy a printed page into a computer's memory, thus doing away with the need to type the copy.
- **Screen saver** - A program that changes the screen display while the user is away from the computer.
- **Server** - A computer that manages a shared resource and provides a set of shared user services to the clients.
- **Search Engine** - Software that searches, gathers and identifies information from a database based on an index, keywords or titles.
- **Spam** - Unwanted repetitious messages, such as unsolicited bulk e-mail.
- **Soft copy** - Information shown on the display screen.
- **Sort** - To arrange fields, records, or files in a predetermined sequence.
- **Surfing the Net** - Browsing through various Web sites on the Internet in search of interesting things.

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T

- **Trash** - Place where you put files and folders that you want to delete or get rid of.
- **Topology** - The structure of the network, including physical connections such as wiring schemes and logical interactions between network devices.
- **Track** - A ring on a disk where data can be written.
- **Telnet** - A protocol for remote computing on the internet that allows a computer to act as a remote terminal on another machine, anywhere on the internet.
- **Touchpad** - The device on a laptop computer that takes the place of a mouse.
- **Touch screen technology** - The technology that permits a user to perform a function simply by touching the screen on an appropriate spot.

U

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- **Uninterrupted Power Supply (UPS)** - A Battery powered backup system that provides enough electricity to a computer during a power outage so that a user can save files before shutting down the computer.
- **Universal Serial Bus (USB)** - A common standard for connecting multiple peripherals to a computer as needed.
- **Upload** - To transfer information from a client computer to a host computer.

V

- **Virus** - A piece of computer code designed as a prank or malicious act to spread from one computer to another by attaching itself to other programs.

W

- **WAP** - Wireless Application Protocol is a specification for a set of communication protocol used to allow wireless devices to access the internet and other utilities.
- **Web browser** - Software that permits a user with a click of a mouse to locate, display, and download text, video,

audio, and graphics stored in a host computer on the Web.

The most common Web browsers now in use are Internet Explorer, Google Chrome and Mozilla Firefox.

- **Web site** - One or more related pages created by an individual or an organization and posted on the World Wide Web.
- **Wi-Fi (Wireless fidelity)** - A process that permits high-speed wireless transmission of data.
- **Word processing** - The electronic process of creating, formatting, editing, proofreading, and printing documents.
- **Workstation** - A desktop computer that runs applications and serves as an access point in a local area network.

Z

- **Zombie** - A computer that has been hijacked by a cracker without the owner's knowledge and used to perform malicious tasks on the Internet.

Important Questions Based on Microsoft Office:

1. **Microsoft Office is a _____.**
A) Shareware B) Public-domain software
C) Open source software D) **An application suit**
E) Firmware
2. **Which term is not related with font?**
A) Font face B) Font size C) Font color
D) **Font grammar** E) None of these
3. **The valid format of MS Word is _____.**
A) .jpeg B) .png C) **.doc**
D) .exe E) None of these
4. **Which of the following option may be used to change page-size and margins?**
A) **Page Layout** B) View C) Tools
D) Data E) None of these
5. **To justify the selected text, the shortcut key is _____.**
A) Ctrl + 1 B) **Ctrl + J** C) Ctrl + U
D) Ctrl + Alt + K E) None of these
6. **Workbook is a collection of _____ in MS Excel?**
A) page set-up B) buttons C) diagrams
D) charts E) **worksheets**
7. **In order to move from one worksheet to another in MS-Excel workbook. One should click _____.**
A) active cell B) scroll bar C) **sheet tab**
D) tab button E) None of these
8. **In a spreadsheet, a _____ is a number you will use in a calculation.**
A) label B) cell C) field
D) **value** E) None of these
9. **In Power Point, which of the following will not advance the slides in a slide show view?**
A) **Esc key** B) The spacebar
C) The Enter key D) The mouse button
E) None of these

10. **In Microsoft PowerPoint, two kinds of sound effects files that can be added to the presentation are**
A) **.wav files and .mid files**
B) wav files and .gif files C) wav files and .jpg files
D) jpg files and .gif files E) None of these
11. **Which PowerPoint view displays each slide of the presentation as a thumbnail and is useful for rearranging slides?**
A) **Slide Sorter** B) Slide Show C) Slide Master
D) Notes Page E) Slide Design
12. **If you want to insert a chart to your slide then go to _____.**
A) **Insert - Chart** B) Home - Chart C) Format - Chart
D) Table - Chart E) None of these
13. **Which of the following is not a type of Microsoft access database object?**
A) Table B) **Worksheets** C) Modules
D) Macros E) None of these
14. **Row in an Access table is also known as _____.**
A) field B) **record** C) data
D) type E) None of these
15. **Queries in Access can be used as _____.**
A) View, change and analyse data in different ways
B) A source of records for forms and reports
C) to access internet D) **Both a and b**
E) None of these
16. **Pressing F8 key for three times selects**
A) A word B) **A sentence** C) A paragraph
D) Entire document E) None of these
17. **What happens if you press Ctrl + Shift + F8?**
A) It activates extended selection
B) **It activates the rectangular selection**
C) It selects the paragraph on which the insertion line is.
D) Both (A) and (C) E) None of these

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18. How can you disable extended selection mode?
A) Press F8 again to disable
B) Press Del to disable
C) Press Esc to disable
D) Press Enter to disable
E) It cannot be disabled
19. What does EXT indicator on status bar of MS Word indicate?
A) It indicates whether the external text is pasted on document or not
B) It indicates whether extended add-ons are installed on MS Word or not
C) It indicates whether Extended Selection mode is turned on or off
D) Both (A) and (B)
E) None of these
20. What is the maximum number of lines you can set for a drop cap?
A) 3
B) 10
C) 15
D) 20
E) 50
21. What is the default number of lines to drop for drop cap?
A) 3
B) 10
C) 15
D) 20
E) 7
22. What is the shortcut key you can press to create a copyright symbol?
A) Alt+Ctrl+C
B) Alt + C
C) Ctrl + C
D) Ctrl + Shift + C
E) None of these
23. How many columns can you insert in a word document in maximum?
A) 35
B) 63
C) 55
D) 65
E) 60
24. What is the smallest and largest font size available in Font Size tool on formatting toolbar?
A) 8 and 72
B) 8 and 64
C) 12 and 72
D) 10 and 40
E) None of these
25. Select all the text in MS Word document by:
A) Ctrl + S
B) Ctrl + 1
C) Shift + A
D) Ctrl + A
E) None of these
26. MS Word is _____ software.
A) System
B) Application
C) Programming
D) Compiler
E) None of these
27. The shortcut key for paste selected text/picture in MS Word is _____.
A) Ctrl + X
B) Ctrl + C
C) Ctrl + V
D) Ctrl + Z
E) None of these
28. Using Print Preview is useful. When you want to
A) colour the document
B) save the document
C) delete the document
D) copy the document
E) view how the document will appear when printed
29. To indent the first paragraph of your report, you should use this key.
A) Space bar
B) Return key
C) Tab key
D) Shift key
E) None of these
30. In Excel, the contents of the active cell are displayed in the _____.
A) footer bar
B) tool bar
C) task bar
D) menu bar
E) formula bar
31. _____ appear at the bottom of the Excel Window.
A) Work sheet tabs
B) Name box
C) Formula bar
D) Title bar
E) None of these
32. In MS excel _____ are numbered from 1 to onwards and _____ are numbered from A to onwards.
A) Columns, rows
B) Rows, slides
C) Slides, rows
D) Rows, columns
E) None of these
33. What is the default column width of MS Excel?
A) 5.5
B) 2.98
C) 8.43
D) 6.49
E) None of these
34. To insert a new slide go to _____ tab, in the Slides group, click New Slide.
A) Home
B) View
C) Animations
D) Slide show
E) None of these
35. Times new Roman, Cambria, Arial are the example of _____.
A) Font face
B) Themes
C) SmartArt
D) Clipart
E) None of these
36. In Access a _____ is the collection of data items of all the fields pertaining to one entity.
A) field
B) record
C) form
D) report
E) None of these
37. A table of how many columns can you insert in a word document in maximum.
A) 55
B) 42
C) 32
D) 63
E) As you wish
38. In MS Access a _____ name must be unique within a database.
A) Field
B) Record
C) Table
D) Character
E) None of these
39. The minimum number of rows and columns in MS Word document is
A) 1 and 1
B) 2 and 1
C) 2 and 2
D) 3 and 3
E) None of these
40. Thesaurus tool in MS Word is used for
A) Spelling suggestions
B) Grammar options
C) Synonyms and Antonyms words
D) All of the above
E) None of these
41. Why Drop Caps are used in document?
A) To drop all the capital letters
B) To automatically begin each paragraph with capital letter
C) To begin a paragraph with a large dropped initial capital letter
D) To drop the numbers
E) None of these
42. A bookmark is an item or location in document that you identify as a name for future reference. Which of the following task is accomplished by using bookmarks?
A) To add anchors in web page
B) To mark the ending of a paragraph of document
C) To quickly jump to specific location in document
D) To add hyperlinks in webpage
E) None of these
43. A word processor would most likely be used to do
A) Keep an account of money spent
B) Do a computer search in media center
C) Maintain an inventory
D) Type a biography

E) Maintain records of database

44. Which of the following is not valid version of MS Office?

- A) Office XP **B) Office Vista** C) Office 2007
D) Office 2010 E) None of these

45. You cannot close MS Word application by

- A) Choosing File menu then Exit submenu
B) Press Alt+F4
C) Click X button on title bar
D) From File menu choose Close submenu
E) None of these

46. The key F12 in MS Word opens a

- A) Save As dialog box** B) Open dialog box
C) Save dialog box D) Close dialog box
E) Opens help menu

47. What is the short cut key to open the Open dialog box?

- A) F12 B) Shift F12 C) Alt + F1
D) Ctrl + F12 E) None of these

48. Which of the following symbol sets would be most likely to contain a mathematical symbol such as a degree sign, greater than or equal to, or a Greek letter?

- A) Wingdings B) Wingdings 3 C) Webdings
D) Symbol E) Arial

49. When assigning a shortcut key to a symbol, you should always try to select a key or key combination that is:

- A) Unassigned**
B) Located on the ten-key pad section of your keyboard.
C) Assigned to another task.
D) From the same font family as the symbol.
E) None of these

50. Suppose you wanted to create an AutoCorrect entry that would type the words 'We regret to inform you that your submission has been declined' of the following choices, which would be the best name you could assign to this entry?

A) Regret **B) Subdual**

C) We regret to inform you that your submission has been declined
D) 11 E) None of these

51. If you want to convert a symbol or several lines of text into an AutoCorrect entry, you should:

A) Insert the symbol or type the text in a Word document first. Then, select the text or symbol and go to the AutoCorrect dialog box.

B) Click the Tools menu and choose AutoCorrect Options. Then, click the Insert menu and choose Symbol (or click the Format menu and choose Paragraph) to add the symbol or paragraph to AutoCorrect.

C) AutoCorrect can only accommodate one line of text. It is not possible to convert a symbol or multiple lines of text into an AutoCorrect entry.

D) Insert the symbol or type the text in a Word document first. Then, select the text or symbol and click the Edit menu followed by Paste Special. Select New AutoCorrect Entry and then click OK.

E) None of the above

52. AutoCorrect was originally designed to replace _____ words as you type.

- A) Short, repetitive B) Grammatically incorrect
C) Misspelled words D) Incorrect Image
E) None of the above

53. Which of the following is the second step in creating a macro?

- A) Start recording
B) Using your mouse or keyboard, perform the task you want to automate
C) Assign a keyboard shortcut to the macro
D) Give the macro a name
E) None of these

54. If you will be displaying or printing your document on another computer, you'll want to make sure and select the _____ option under the 'Save' tab.

- A) Embed Fonts **B) Embed True Type Fonts**
C) Save True Type Fonts D) Save Fonts
E) Font Face

55. In Word, the mailing list is known as the _____.

- A) Data sheet B) Source **C) Data source**
D) Sheet E) Hyperlink

56. To delete 3-D rotation from the shape, point to 3-D Rotation, and then click ____.

- A) Non Rotation B) Not Rotation C) None Rotation
D) No Rotation E) None of these

57. In Microsoft Office Power-Point 2007, a ____ is a connection from one slide to another slide in the same presentation or to a slide in another presentation, an e-mail address, a Web page, or a file.

- A) Hyphenation B) Header C) Footer
D) Hyperlink E) None of these

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| <p>56. In PowerPoint, which of the following is the default page setup orientation for notes pages, outlines and handouts?
 A) Vertical B) Landscape C) Portrait
 D) All of these E) None of these</p> <p>57. In slide layout panel, how many layouts are available for next layout by default?
 A) 4 B) 7 C) 12
 D) 15 E) None of these</p> <p>58. In Access, this operation copies a backup file from the storage medium back onto the computer :
 A) Restore B) Recreate C) Copy
 D) Structure E) None of these</p> | <p>59. In the Form Wizard dialog box, the fields from the selected table are displayed in which list box?
 A) All fields B) All Records
 C) Available Records D) Available Fields
 E) None of these</p> <p>60. Which control does access use to link data access page components to access data?
 A) Microsoft Office Data Source Control
 B) Microsoft Dynamic Data Control
 C) Microsoft Data Connection Control
 D) Microsoft Default Connection Control
 E) None of the above</p> |
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Miscellaneous Questions on Computer Knowledge

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| <p>1. CD-ROM is a ____?
 (a) Semiconductor memory (b) Memory registers
 (c) Magnetic memory (d) Cache Memory
 (e) None of the above</p> <p>2. Actual execution of instructions in a computer takes place in?
 (a) ALU (b) Control Unit (c) Storage unit
 (d) Control bus (e) None of the above</p> <p>3. Modem stands for ____.
 (a) A type of secondary memory
 (b) Modulator demodulator
 (c) Mainframe operating device memory
 (d) Multiprocessing device
 (e) None of the above</p> <p>4. ____ Controls access to the resources on a network.
 (a) Server (b) Client
 (c) Both ((a) and (b)) (d) Memory
 (e) None of the above</p> <p>5. The wider the bus, the ____ the transfer of data
 (a) Greater the number of transfer steps required and the slower
 (b) Greater the number of transfer steps required and the faster
 (c) Fewer the number of transfer steps required and the slower
 (d) Fewer the number of transfer steps required and the faster
 (e) None of the above</p> <p>6. What does 'GIF' Stands for?
 (a) Graphics Interchange Format
 (b) Geo Interchange Format
 (c) Graphical Interconnection Format
 (d) Graphics Interlace Format
 (e) Graphics Interchange File</p> <p>7. Cache and main memory will lose their contents when the power is off. They are ____.
 (a) dynamic (b) static (c) volatile
 (d) non-volatile (e) faulty</p> <p>8. How can the user determine what programs are available on a computer ?
 (a) Checking the hard disk properties</p> | <p>(b) Viewing the installed programs during the booting process
 (c) Checking the operating system for a list of installed programs
 (d) Checking the existing files saved on the disk
 (e) None of these</p> <p>9. Processing involves ____.
 (a) inputting data into a computer system
 (b) transforming input into output
 (c) displaying output in a useful manner
 (d) providing relevant answers
 (e) None of these</p> <p>10. Which process checks to ensure the components of the computer are operating and connected properly?
 (a) Booting (b) Processing (c) Saving
 (d) Editing (e) None of these</p> <p>11. What kind of programming language is Java?
 (a) Object-oriented programming language
 (b) Relational programming language
 (c) Sixth-generation programming language
 (d) Database management programming language
 (e) None of these</p> <p>12. Formatting a disk results in all the data being?
 (a) Saved to the disk (b) Copied from the disk
 (c) Deleted from the disk
 (d) All of the above (e) None of the above</p> <p>13. What type of web technology creates an online community where people can make statements and others can read and respond to those statements?
 (a) I-Journal (b) Podcast (c) ASP
 (d) Blog (e) None of these</p> <p>14. What is a common medium used for thieves to steal others' identities?
 (a) Telephone (b) Pick pocketing
 (c) Burglary (d) Email
 (e) None of the above</p> <p>15. Application software?
 (a) Is used to control the operating system
 (b) Is designed to help programmers
 (c) Performs specific task for computer users
 (d) Is used for making design only
 (e) All of the above</p> |
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16. A set of instruction telling the computer what to do is called?
(a) Mentor (b) instructor (c) compiler
(d) program (e) debugger
17. A _____ is anything that can cause harm.
(a) vulnerability (b) redundancy (c) Spam
(d) threat (e) None of the above
18. A _____ is a small program embedded inside of a GIF image.
(a) web bug (b) cookie (c) spyware application
(d) spam (e) None of the above
19. When you save an Microsoft Access project, what file format do you use?
(a) .adp (b) .Xml (c) .mbd
(d) All of these (e) None of the above
21. To select a column the easiest method is to?
(a) double click any cell in the column
(b) drag from the top cell in the column to the last cell in the column
(c) click the column heading
(d) click the row heading
(e) None of the above
22. 30,000 bytes is equal to
(a) 30 KB (b) 3 MB (c) 3 GB
(d) 3 TB (e) None of these
23. Terminal is a:
(a) device to give power supply to computer
(b) Point at which data enters or leaves the computer
(c) The last instruction in a program
(d) any input/output device
(e) None of these
24. Which part of a computer cannot be touched?
(a) Mouse (b) Monitor (c) Hardware
(d) Software (e) None of these
25. Manipulation of data in computer is called
(a) Boot **(b) Processing** (c) Simplification
(d) Format (e) Clean disk
26. Which computer bus connects the main memory to the memory controller in computer systems?
(a) Data Bus **(b) Memory Bus**
(c) I/O Bus (d) Both (b) and (c)
(e) None of these
27. _____ and _____ are the two types of computer memory.
(a) RAM and CPU (b) ROM and CPU
(c) RAM and ROM (d) RAM and BIOS
(e) BIOS and ROM
28. What is the full form of CRT?
(a) Cathode Ray Tube
(b) Computer Resolution and Transparency
(c) Cathode Resolution and Transparency
(d) Computer RAM Trash
(e) None of these
29. Which among the following is not hardware?
(a) Motherboard **(b) Operating system**
(c) CPU (d) Keyboard
(e) Hard disk drive
30. Which of the following is software?
(a) Motherboard (b) CPU
(c) Microsoft Windows
(d) RAM (e) All of these
31. In computing, a _____ is a directive to a computer program order to perform a specific task.
(a) Hard boot (b) Hibernation **(c) Command**
(d) Warm boot (e) Format
32. Which of the following is/are modifier keys in a computer?
(a) Ctrl (b) Alt (c) Shift
(d) Both 2 and 3 **(e) All of the above**
33. Which among the following is associated with Internet Mail?
(a) Inbox (b) Server (c) Trash
(d) Drop Box (e) One Drive
34. What is a cursor?
(a) It is an indicator
(b) It shows the position on a computer monitor
(c) Cursor is Latin for 'runner'.
(d) Both 1 and 2
(e) All of the above
35. Which among the following is not legitimate type of computer virus??
(a) Boot Virus (b) File infector Virus
(c) Resident Virus **(d) Hangout Virus**
(e) Macro Virus
36. 30,000 bytes is equal to
(a) 30 KB (b) 3 MB (c) 3 GB
(d) 3 TB (e) None of these
37. The main folder on a storage device is called
(a) Platform (b) Interface **(c) Root Directory**
(d) Device Driver (e) None of these
38. ISDN stands for
(a) Integral Service Dynamic Network
(b) International Subscriber Dialup Network
(c) International Service Digital Network
(d) Integrated Service Digital Network
(e) None of these



Adda 247
Test Series



SEBI ASSISTANT MANAGER 2018
PHASE -I

20 TOTAL TESTS

- 5 FULL LENGTH MOCKS
- 15 PRACTICE SETS

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39. Which technology is used by cell phones to access the internet?
(a) Cloud computing (b) Neural Networks
(c) XML language (d) **micro browser software**
(e) None of the above
40. Which of the following scrambles a message by applying a secret code?
(a) Audits (b) **Encryption** (c) UPS
(d) Firewalls (e) Encapsulation
41. What type of monitoring file is commonly used on and accepted from Internet sites?
(a) Smartware (b) Phishes (c) **Cookies**
(d) Trojans (e) None of the above
42. The software that secretly collects information about the web client's internet habits?
(a) Detectware (b) Spam (c) **Spyware**
(d) Pharming (e) All of the above
43. Which register is used as a working area in CPU ?
(a) Program counter (b) Instruction registers
(c) Instruction decoder
(d) Parity generator (e) **Accumulator**
44. Which of the following is the valid subnet mask for class B IP Address?
(a) 251.254.25.5 (b) **255.255.0.0**
(c) 155.151.12.9 (d) 255.0.0.0
(e) 255.255.255.0
45. Repeaters function in which layer?
(a) **Physical layer** (b) Data link layer
(c) Network layer (d) Both (a) and (b)
(e) Session layer
46. Name the input device from the given options, that cannot be used to work in MS Office ?
(a) Scanner (b) Mouse (c) Keyboard
(d) **Joy stick** (e) All of the above
47. Select the odd one out :
(a) Interpreter (b) **operating system**
(c) Compiler (d) Assembler
(e) both (a) and (d)
48. Name the first widespread computer virus for MS-DOS?
(a) **Brain** (b) Handshake (c) Code Red
(d) Melissa (e) Sasser
49. What is ICMP (Internet Control Message Protocol)?
(a) a protocol that manages memory
(b) a protocol used to monitor computers
(c) **a protocol that handles error and control messages**
(d) both (a) and (b) (e) None of these
50. What is Loading Operating System into main memory called?
(a) Printing (b) Saving (c) Storing
(d) Staring (e) **Booting**
51. What is a group of computers and associated devices that share a common communications line or wireless link to a server within a small geographic area are called?
(a) **LAN** (b) WAN (c) MAN
(d) both (a) and (b) (e) None of these
52. _____ is created when two tables are joined on attributes that are neither primary keys nor foreign keys.
(a) Relation (b) Cardinality (c) **Spurious tuple**
(d) Candidate Key (e) None of the above
53. What does SQL stand for?
(a) **Structured Query Language**
(b) Structured Questioning Logicstics
(c) Simplified Query Logic
(d) Simple Questioning Language
(e) Structured Query Logic
54. From where to where is a multicast message sent?
(a) From one source to one destination
(b) From multiple source to multiple destination
(c) From multiple sources to one destination
(d) **From one source to multiple destinations**
(e) None of the above
55. Using the direct broadcast address,
(a) a host sends a packet to all other host on the network.
(b) **a router sends a packet to all other hosts on the network.**
(c) a host sends a packet to a specific host on the network.
(d) a host sends a packet to all routers on the network.
(e) none of the above
56. In computing, a WYSIWYG editor is a system. What does WYSIWYG stands for?
(a) **what you see is what you get**
(b) when you see is where you get
(c) when you see is what you get
(d) where you see is when you get
(e) None of the above
57. What is the Global Access shortcut key for Opening a new database in MS Access?
(a) Cntrl+A (b) Cntrl+F (c) Cntrl+S
(d) Cntrl+O (e) **Cntrl+N**
58. What is the latest version of MS Office available?
(a) **Office 2016** (b) Office 10 (c) Office 300
(d) Office 250 (e) None of the above
59. Which of the following is an operating system?
(a) Compiler (b) Plotter (c) **Mac**
(d) Both 1 and 2 (e) All of the above
60. Which of the following is the name of an application similar to MS Office?
(a) Libre Office (c) Open Office (c) Neo Office
(d) Free Office (e) **All of the above**
61. What is the full form of UNIVAC?
(a) **Universal Automatic Computer**
(b) Universal Array Computer
(c) Unique Automatic Computer
(d) Unvalued Automatic Computer
(e) None of these
62. The process of converting analog signals into digital signals so they can be processed by a receiving computer is referred to as
(a) **Modulation** (b) Demodulation
(c) Synchronizing (d) Digitizing (e) Transmission

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64. Which of the following memory has stored data in large number?
 (a) RAM (b) ROM (c) Cache memory
(d) Hard Disk (e) None of these
65. Generally, web address is located by
 (a) Hyperlink (b) HTTP (c) URL
 (d) Locator (e) Browser
66. Which of the following is more than TB ?
 (a) MB (b) KB (c) PB
 (d) Bit (e) Bytes
67. A web address is a unique name at identifies a specific _____ on the internet.
 (a) URL (b) HTML (c) CSS
(d) Website (e) None of these
68. If you wish to extend the length of the network without having the signal degrade, you would use a
 (a) Gateway (b) Router (c) Modem
(d) Repeater (e) Resonator
69. The _____ button on the Quick Access Toolbar allows you to cancel your recent commands or activities.
 (a) Search (b) Cut (c) Undo
 (d) Redo
70. Which of the following is not a binary number?
 (a) 110010 (b) 201020 (c) 101010
 (d) 100001 (e) 1011101
71. Which of the following is a base of hexadecimal number?
 (a) 8 (b) 2 (c) 10
(d) 16 (e) 24
72. A web address is a unique name at identifies a specific _____ on the internet.
 (a) URL (b) HTML (c) CSS
(d) Website (e) None of these
73. What do you call the programs that are used to find out possible faults and their causes?
 (a) Operating system extensions (b) Cookies
(c) Diagnostic software (d) Boot diskettes
 (e) None of the above
74. 72. What is Adwords ?
 (a) Advertising Service by Microsoft
 (b) Advanced Search Engine
(c) Advertising Service by Google
 (d) Automatic words Search Engine by Yahoo
 (e) Advertising Service by Yahoo
75. 73. Given the following URL - <http://www.example.com:80/path/to/myfile.html>, here , 'www.example.com', ':80' stand for ____ and ____ respectively.
 (a) IP and source (b) Domain Name and Port
 (c) File name and Path (d) Path and Port
 (e) IP and Locator
74. Which of the following is a recent version of operating systems?
 (a) Windows XP (b) Windows 7 Basic
 (c) Windows 8 (d) Windows 10
 (e) Windows 2013
75. What is the full form of SMTP?
 (a) Swift Mail Transmission Program
(b) Simple Mail Transfer Protocol
 (c) Swift Mail Transfer Program
 (d) Spam Mail Trash Program
 (e) None of these
76. A high speed device used in CPU for temporary storage during processing is called
(a) Register (b) Bus (c) Compiler
 (d) Translator (e) Bus
77. Which of the following is used for establishing connection to other document or locations within a website?
(a) Hyperlink (b) Web link (c) CSS
 (d) Java query (e) HTML Link
78. When a computer is turned on, where does it get the first instructions that it loads into RAM?
 (a) From RAM (b) From ROM
 (c) From the Hard Disk
 (d) From a CD (e) None of these
79. _____ is designed to communicate instructions to a machine, particularly a computer. It can be used to create programs to control the behavior of a machine or to express algorithms.
 (a) PROM (b) Programming language
 (c) Microcontrollers (d) EPROM
 (e) None of the above
80. Which of the following groups contains all graphical file extensions?
(a) JPG, GIF, BMP (b) GIF, TCF, WMF
 (c) TCP, JPG, BMP (d) ADP, GIF, PPT
 (e) JPG, CPX, GCM
81. What type of technology allows you to verbally speak with someone over the Internet?
 (a) Wiki (b) Social network
 (c) E-phone (d) VoIP (e) Blog
82. In PowerPoint, what is the function of Alt+N in navigating the ribbon with only the keyboard?
 (a) Open the Transitions tab (b) Open the Home tab
(c) Open the Insert tab (d) Open the Review tab
 (e) Open the Tell me box
83. What is it called when you are rerouted from your requested internet site to another, undesired site?
 (a) Phishing (b) Pharming (c) Redirecting
 (d) Hijacking (e) Trojan
84. The coding language used to create documents for use on the Internet is _____.
(a) HTML (b) HSMT (c) HLTM
 (d) All of these (e) HTTP
85. The technique in which an attacker convinces an authorized user to pass classified information to an unauthorized person is called _____.
 (a) dumpster diving (b) reverse social engineering
 (c) shoulder surfing (d) social engineering
 (e) Cracking
86. In which generation did multi-programming start?
 (a) First generation (b) Second generation
(c) Third generation
 (d) Fourth generation (e) Fifth generation

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87. FORTRAN is a programming language. It is more suitable for which purpose?
 (a) business applications (b) marketing applications
(c) scientific applications
 (d) statically calculative applications
 (e) Commercial application
88. Speed of supercomputer measured in:
 (a) Kbps (b) Mbps **(c) FLOPS**
 (d) MIPS (e) CPS
89. Which of the following is used to open file menu options in current program?
 (a) Ctrl+F (b) Shift+F **(c) Alt+F**
 (d) Alt+Ctrl+F (e) Tab+F
90. By which of the following symbol all Excel formula start?
 (a) % (b) + (c) -
(d) = (e) @
91. Which IEEE standard used to define the specification for a wireless LAN?
 (a) IEEE 802.5 (b) IEEE 802.3 **(c) IEEE 802.11**
 (d) IEEE 802.4 (e) IEEE 802.6
92. Which of the following data functions would you use to hide all rows in a worksheet except those that meet some criteria you specify?
 (a) Sort (b) Query **(c) Custom Filter**
 (d) Conditional Formatting
 (e) Conditional specification
93. How many layers are in the TCP/IP model?
(a) 4 layers (b) 6 layers (c) 5 layers
 (d) 7 layers (e) 3 layers
94. Which of the following is a video format?
 (a) JPEG (b) GIF **(c) FLV**
 (d) PNG (e) BMP
95. Commands at the top of a screen such as File-Edit, Format and Tools to operate and change things are incorporated in _____.
(a) Menu bar (b) Tool bar (c) User friendly
 (d) Word processor (e) Graphics
96. The basic input/output system (BIOS) is stored in:
 (a) RAM **(b) ROM** (c) ALU
 (d) Peripherals (e) DRAM
97. Which of the following diagrams graphically represents an inter-relationship among entities in a database?
(a) Entity-relationship diagram
 (b) Data flow diagram
 (c) Control flow diagram
 (d) Sequence diagram
 (e) Data relationship diagram
98. Which of the following device enabling data transfer between two different networks?
 (a) Bridge (b) Router **(c) Gateway**
 (d) Repeater (e) Modem
99. Which of the following number system has base-8?
 (a) Unary number system (b) Binary number system
(c) Octal number system
 (d) Hexadecimal Number System
 (e) Decimal number system
100. What is a note or an annotation that an author or reviewer adds to a document?
(a) Comment (b) Caption (c) Footer
 (d) Header (e) Underline



**Adda 247
Test Series**



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VIJAYA BANK
 (A Government of India Undertaking)
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CREDIT OFFICERS

15 TOTAL TESTS

- 10 FULL-LENGTH MOCKS
- 5 ENGLISH LANGUAGE PRACTICE SETS