

Computer

chapter - 1

Write suitable technical terms for the following statements.

1. The complete full functional Computer.
→ Computer System
2. The process of converting raw data into useful information.
→ Data processing
3. An error displayed by the Computer due to wrong input by the user.
→ Input Error
4. The feature of Computer that tells it can be used in almost every fields.
→ Versatility
5. The basic operational structure of Computer system.
→ Computer Architecture
6. The tangible parts which make computer system.
→ Hardware.
7. The system board where all the vital components of Computers are connected.
→ Motherboard
8. Types of computer memory whose contents are lost during power interruption.
→ Volatile memory
9. The electronic pathway on motherboard.
→ Bus
10. The high speed memory kept in between CPU and main memory.
→ Cache memory

11. The software which provides right to modify and distribute.

→ Open source software

12. Secondary storage device that uses flash memory to store data.

→ Solid State drive (SSD)

13. Types of system software which manages resources in computer.

→ Operating System (OS)

Group B

1. write the importance of computer in modern life

→ the importance of computer in modern life is given below:-

- Computers are used in different organization for data processing, account maintenance, inventory control etc.
- Computers can manage huge databases and access any information through internet.
- Computers helps scientist do their research in every subject.
- Computers helps to earn money.

2. What is meant by diligence and versatility of computer?

→ Diligence and versatility are both features of computer.

- * Diligence → It's the ability of computer to work continuously for hours and hours without any error. Computer is free from tiredness, lack of concentration, etc.
- * Versatility → computers have capacity to perform completely several types of work in various sector. This capacity of computer made it versatile.

3. How is computer used in education and entertainment?

→ Computers are used both in education and entertainment which is explained below:

* In education

1. Use of education tools such as Computer Based Education, web based education, etc.

2. Use of smart boards, projectors and educational slides for better delivery.

* In Entertainment

1. To play Computer games such as cards, chess, etc.

2. To watch movies, listen music, etc. with the help of computer.

3.

4. Write the advantages and disadvantages of computer.

→ The advantages and disadvantages of computer are:-

Advantages

i) Computers can manage huge databases and access any information through the internet.

ii) Computers have become a source of income for numerous individual and companies.

Disadvantages

i) Some contents on computer based website are very harmful.

ii) Computers destroys our social life and isolates from one another.

5. what is Input device? write the functions of Input devices.

→ The hardware devices through which we can send the data and instruction to the computer are known as input devices.

The functions of input device are given as:-

- To allow data to be entered into the computer in different formats, such as audio, images, text, etc.
- To translate provided information into machine readable format for processing.
- To forward data to the processor for conversion into information.



6. Describe any two common input devices.

→ The two common input devices are given as:-

- mouse → It is a common widely used handheld pointing input device. It is the device that controls cursor in GUI of the computer.
- Keyboard → It is the fundamental text input device used to enter data directly into computer. most commonly used Keyboard is QWERTY Keyboard which contains 104 key 12 function keys.

7. Why CPU is called an electronic brain of computer?

→ CPU is called an electronic brain of computer, because similar to human natural brain it controls all the operations, interprets processes as well as executes it, makes decisions, perform calculation.

8. What write the function of control unit and Arithmetic logic unit.

→ The function of control unit and Arithmetic Logic unit are given as:

i) Control unit

ii) Controls and Coordinates all parts of the computer

ii) Fetches instructions and directs ALU, memory, I/O devices, etc. on what to do.

ALU Arithmetic logic unit (ALU)

→ Arithmetic operations like addition, subtraction, multiplication and division is performed by ALU.

→ Logical operations such as $>$, $<$, \geq , \leq , etc are performed by ALU.

3. What is the importance of data bus in data transfer?

→ The importance of data bus in data transfer are given as:-

- i) To transfer data between computer's memory and CPU.
- ii) To regulate speed at which information is exchanged between components.

10. Define computer memory with its purpose.

→ Computer memory is the storage unit in a computer that stores data, instructions, and results temporarily or permanently.

The main purpose of computer memory is to store data and instructions that CPU needs for processing and save the output for future use.

11. Differentiate between RAM and Rom

→ The difference between RAM and Rom are:

Rom

- i) Rom stands for Read only memory.

RAM

i) RAM stands for Random access memory

- ii) It is non-volatile memory.
- ii) It is volatile memory.

- iii) It is used to store programs/instruction that are required for operation of computer.
- iii) used to store data instruction while being processed

12. Mention the advantages and disadvantages of register memory.

→ The advantages and disadvantages of register memory are given below:-

Advantages

- Provides faster access to data, instruction and address stored in it for CPU.
- It handles the storing / retrieving variables accessed repeatedly.

Disadvantages

- It is more expensive than other types of memory.
- It cannot store large amount of data because of small size.

13. Why secondary memories are called permanent memory?

→ Secondary memories are called permanent memory because it stores data and programs permanently, even when computer loses electricity or gets turned off. where memory such as RAM lose all their data when turned off.

14. What are the advantage and disadvantage of hard disk?

→ The advantage and disadvantage of hard disk are given as:-

Advantage

- It has large storage and retrieval capacity of data.
- It is usually fixed inside computer so cannot get mislaid.

Disadvantages

- The disk is fixed inside the computer and cannot easily be transferred to another computer.
- Regular 'head' crashes can damage the surface of disk, leading to the loss of data in that sector.

15. Why is SSD more popular than HDD these days?

→ SSD is more popular than HDD these days because it is faster, more reliable, and more energy efficient as well as have no moving parts which makes it less likely to be damaged.

16. Why motherboard is known as main system board of computer?

→ The motherboard is called main system board because it connects and holds all major components of a computer including CPU, memory storage and I/O devices which makes to communicate and work together.

17. Describe major types of USB memory
→ The major types of USB memory are given below.

- USB flash drive → It is a small, portable device that stores data using flash memory. It is used for transferring files commonly.
- External SSD → It is the fast storage device with no moving parts which is connected via USB. used for data storage and backup.

18. Compare between input and output device.
→ Comparison between input and output device is given as:

Input	Output
→ It is used to enter data into computer	→ It is used to show or give results from the computer.
→ used for sending data to computer its example:- keyboard, mouse, scanner etc	→ used for receiving information, data from computer. example:- monitor, speaker, etc

19. What are the advantages of LED over LCD?
→ The advantages of LED over LCD are given as:-

1. Less power consumption → LED generally uses less power than LCD.
2. Better display quality → LEDs provide better display quality than LCD.

20. Write the features of 3D printer.

→ The features of 3D printer are given as:-

- a) They have enormous printing speed.
- b) They can print in any size, shape or angle.
- c) Direct 3D printing uses ink-jet technology.
- d) They use additive and subtractive manufacturing technology.

21. Difference between dot matrix printer and laser printer.

→ The difference between dot matrix printer and laser printer are given as:-

Dot-matrix printer

- i) It uses tiny pins to strike to print on paper.
- ii) It is slow and noisy.
- iii) It is of low quality.
- iv) It is cheaper to print.

Laser printer

- i) It uses laser beam and toner powder to print.

- ii) It is faster and quieter.

- iii) High quality print.

- iv) It is more expensive to print.

Q2. write the uses of USB type C and HDMI port

→ the uses of type USB type C and HDMI port are given as:-

USB type C

~~HDMI port~~

- It is used for high speed data transfer rate, charging devices, etc.
- It is used to connect external display using adapters.

HDMI port

- It is used for transmitting audio and video to TVs or monitors.
- It is used to connect laptops to projectors for presentation.

Q3. describe advantages of open source software over proprietary software.

→

The advantages of open source software over proprietary software are:-

- a) Free to use → open source are free to use, proprietary software costs money.
- b) Customizable → open source software can be modified easily and used by everyone, proprietary software can't be.

24. write the features of web application software.

→ The features of web application software are given as:-

- Ease of use and update since they are internet based.
- well protected from security risk.
- lowers the cost of sales because of online service.
- Works on multiple platforms easily.