



APRIL NOTES

SUBJECT : COMPUTER SCIENCE

CLASS : IV

CHAPTER – I (DATA STORAGE AND MEMORY DEVICES)

A. Tick () the correction:

1. The memory of a computer is made up of which of these?
(a) RAM (b) **ROM** (c) Chips
2. A Storage device is also called
(a) **Memory Device** (b) ROM (c) RAM
3. What is the other name for secondary memory?
(a) First memory (b) Sole memory (c) **External Memory**
4. 1 GB is equal to
(a) **1024 MB** (b) 1024 TB (c) 1024 PB
5. One nibble is equal to
(a) **4-bits** (b) 6-bits (c) 8-bits

B. Fill in the blanks using the given words:

1. The storage space in computer is called its Memory
2. Primary and secondary are the two types of memory in a computer.
3. A Pen drive is a kind of flash drive.
4. CD is an optical data storage device
5. A byte is equal to eight bits

C. Write ‘T’ for true and ‘F’ for false statements

1. ROM stands for Read only Memory. (T)
2. RAM is lost when computer is switch off.(T)
3. A pen drive is very heavy in weight and big in size.(F)
4. A bit is a group of 8 bytes.(T)
5. A computer can understand only two states-true and false.(T)

D. Define the following:

1. Nibble - A group of 4 bits is called nibble(half byte) for example 1101 is nibble
2. Bit – Binary Digit is the smallest unit of measurement of the storage capacity of a computer.The two digits 0 AND 1 ARE CALLED Binary Digits or Bits.
3. Byte – A byte is a collection of 8 bits.One byte can store only one character.

E. Short answer questions.

1. What is RAM?
RAM stands for Random Access Memory.The information in the RAM is erased when the computer is turned off.It is also known as Volatile memory.

2. What is ROM?

ROM stands for Read Only Memory. Information stored in ROM is permanent in nature i.e., It holds the data even if the computer is switched off.

3. What is Primary Memory?

Primary Memory is also known as Main memory or Internal memory of the system. The data in the internal memory are erased when the computer is turned off. The types of primary memory are RAM and ROM

4. What is Secondary Memory?

Secondary memory or external memory is used to store information for a longer period. The data does not get lost in the external memory even when the computer is turned off. The most commonly used storage media are internal and external hard disk, DVD, CD and flash.

5. What is Memory card?

A memory card is a portable storage device used in mobiles, music player and digital camera. With the help of a memory card, one can transfer images, music files and other data into a computer.

F. Long answer questions:

1. What do you understand by computer memory? What are its two types?

Computer stores all the data and instructions that we enter through input devices for performing various functions. The storage space of a computer is called its memory. The memory of a computer can be classified into two types:

1. Primary Memory
2. Secondary Memory

2. What is the use of Hard Disk

Hard Disk is the most important secondary storage device of a computer system. It is more reliable than any other secondary storage device. Hard disks can store up to 15 TB to 20 TB of data.

3. Explain storage capacity

Storage capacity or memory refers to the specific amount of data storage that a device or system can accommodate. Memory of a storage place in a device is measured in kilobytes (KB), megabytes (MB), gigabytes (computer (TB).

4. Why do you need secondary storage devices

Secondary memory or external storage is used to store information for a longer period. The data does not get lost in the external memory even when the computer is turned off. The secondary memory is essential because the internal memory of a computer has a limited storage capacity.

G. Differentiate between:

1. RAM and ROM

RAM	ROM
1. Random Access Memory	Read Only Memory
2. Any information stored in RAM is lost when computer is switched off. So, it stores data temporarily.	The information in ROM is permanent. It stores data permanently. The instructions stored in ROM cannot be changed
3. it's like a calculator where information exists only till the calculator is on.	It is like an audio disk that can be played, but cannot record anything on it, except in a few selected situations.

2.

Primary Memory	Secondary Memory
1. The data in the internal memory are erased when the computer is turned off.	The data does not get lost in the external memory even when the computer is turned off.
2. The primary memory of a computer is the main memory that is utilized to store data temporarily.	Secondary memory defines to additional storage devices that are utilized to store data permanently.
3. Primary memory is Volatile in nature.	Secondary memory is non-volatile in nature.