



STEPPING STONE
SCHOOL (HIGH)

CLASS : VIII

Subject: Computer Application

Date: 16/06/20

Topic: Operating System.

Time Limit: 1 hour.

Worksheet No. : 7

[Minutely go through all the topics given below.]

Question 1

Write a short note on Time Sharing System.

Answer:

In time sharing method CPU time is divided into equal slots. These slots are assigned to all the users connected to the computer system. The user can use the system only for a specified time slot. If the user cannot finish his work within the given time slot then he will have to wait for his turn to complete the remaining work.

For example computerized reservation system at railway stations. In this system each and every user is provided with a monitor and keyboard. The server is located at a particular place and manages all the systems.

Question 2

Write a short note on Real time processing.

Answer:

Real-time data processing is the execution of data in a short time period, providing near-instantaneous output. Good examples of real-time data processing systems are bank ATMs, traffic control systems and mobile devices.

The essential feature of this process is that the data is processed quickly enough to take further action, for example air traffic control where at any moment the user must know updated information to take further action.

Updating of a bank account of a customer to know the various transactions, balance and go to the next action. In real time system different processes are executed for the same time slot but in some processes time slot can be extended to complete the execution.

For example a program requires 8 seconds for its execution but allowed time slot is only seven seconds. In such circumstances, 1 second will be extended and then control shift to another program.

Question 3

Write a short note Multiprocessing System:

Multiprocessing is the use of 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 or the ability to allocate tasks between them. It provides facility to work with number of users independently and simultaneously. Every user has the facility to work with number of users independently and simultaneously.

Introduction to DOS

Full form of DOS is Disk Operating System. DOS is a CUI based Operating System. It is a collection of programs in the form of files. MS DOS consists of three main files. They are

- a. IO.SYS
- b. MSDOS.SYS
- c. COMMAND.COM

IO.SYS and MS.SYS are hidden files. We cannot see these files directly.

IO.SYS file handles input/output operation of the system.

MSDOS.SYS take care of software operations.

COMMAND.COM file is used to store all the internal commands of the DOS.

Some of the features of the DOS are as follows.

- a) It is a portable operating System.
- b) It can be stored in a secondary storage device.
- c) It is a single user operating system
- d) It is supported in other en