

**Tilak Maharashtra University**  
**Bachelor of Computer Applications**

**Introduction to Computer And Operating System (44112)**

**Marks: 60 (20 for Each Assignment)**

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**Assignment No: 1**

- A] Fill in the blanks and rewrite [5]
1. \_\_\_\_\_ actually executes the instructions and performs all the calculations and decisions.
  2. The Father of Modern Digital Computer is \_\_\_\_\_.
  3. Personal computer was introduced for use in office, home and schools in 1981 by \_\_\_\_\_.
  4. The first transistorized computer was PC-AT.
  5. The \_\_\_\_\_ uses a hard sphere to control cursor movement.

- C] Answer the following [15]
1. Explain the organization of Computer System.
  2. Explain the classification of computer.
  3. Define: Peripheral Devices, Input Devices, and Output Devices.
  4. What are non-impact printers? Describe any two types.
  5. Write short notes on: Voice recognition System, Computer Output Microfilm (COM) and 4<sup>th</sup> Generation of Computers.

**Assignment No: 2**

- A] Fill in the blanks and rewrite [5]
1. EPROM is \_\_\_\_\_
  2. Secondary storage is also called \_\_\_\_\_
  3. The assembly languages use the \_\_\_\_\_ in place of operation codes.
  4. A \_\_\_\_\_ is a pictorial representation of the algorithm.
  5. C was designed and developed at \_\_\_\_\_
- C] Answer the Following [15]
1. Write a note on Primary Storage.
  2. Write note on Sequential Access, Direct Access & Optical Devices.
  3. Short note on 4 GL, Assembly Language.
  4. Draw a flowchart for following: -
    - a. Accept 5 numbers from user and print the Minimum amongst the both.
    - b. Accept 5 numbers from user, one at a time and print their average.
    - c. Find the area & Perimeter of a Rectangle with sides S1 & S2.

**Assignment No: 3**

- A] Fill in the blanks and rewrite [5]
1. The \_\_\_\_\_ is a program in execution.
  2. In \_\_\_\_\_ systems, two or more CPUs are connected together.
  3. In \_\_\_\_\_, it is possible to run more than one application at a time.

4. Central computer is also called the \_\_\_\_\_
5. The geometrical arrangement of nodes in the network is known as \_\_\_\_\_

B] True or False [5]

1. The operating system acts as an interface between the user and the computer.
2. The total amount of work performed by the operating system over a period of time is known as response time.
3. Spooling means Simultaneous Peripheral Output On Line.
4. In a star network a number of computers and devices are connected to each other in a closed loop arrangement.
5. Digital signal is converted into an analog signal for transmission is known as demodulation.

C] Answer the following [5]

1. Explain functions of Operating system.
2. What is multiprogramming
3. What is Character map?
4. What are the advantages of Windows operating system over dos?
5. What is Multiprocessing?

D] Match the following [5]

**Column A**

1. Network layer
2. Application Layer
3. Presentation Layer
4. Physical Layer
5. The Data link layer

**Column B**

- a) Non essential network services
- b) is between the physical and network layer.
- c) Includes physical elements i.e. hardware
- d) Provides services for the end user
- e) determines the route between source and destination.