

2112E066

**BACHELOR OF VOCATION** (Auto. Comp. Manuf.)  
**Subject: Fundamental of Computers**  
**Subject Code: ZBCE-101**  
**Semester: First**  
**December 2021**  
**Theory (External): 35 Marks**  
**Time: 03 Hours**

- 280
6. What is a Computer? Explain important characteristics of computer.
  7. Differentiate the following:
    - i. Multiprogramming & multiprocessing
    - ii. Hub and Router in computer network
  8. What is TCP/IP model? Explain the four layers of TCP/IP Model and what is it used for?

==END OF PAPER==

**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

**SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)**  
(10x1=10 Marks)

Explain in brief the following:

- A) Data and information
- B) Search Engine
- C) Difference between Input Device and Output Device
- D) RAM
- E) LAN
- F) Network Topology
- G) Router
- H) Internet
- I) Document
- J) Digital Signature

**SECTION –B (ESSAY TYPE QUESTIONS)**

(5x5=25 Marks)

1. What is computer virus? How it can harm a computer? Give three examples of computer virus.
2. Perform the following number conversions:
  - i.  $(110111)_2 = (\dots\dots\dots)_{10}$
  - ii.  $(A908)_{16} = (\dots\dots\dots)_2$
  - iii.  $(1234)_8 = (\dots\dots\dots)_{16}$
  - iv.  $(244)_{10} = (\dots\dots\dots)_8$
  - v.  $(351)_{10} = (\dots\dots\dots)_4$
3. Define an Operating System. Write four important functions of operating system?
4. Write short note on the following:
  - i. LAN, MAN, WAN
  - ii. Star Topology, Mesh Topology
5. Answer the following:
  - i. Compare UNIX and Windows
  - ii. Explain the following features of MS-Word: Page Orientation, Line Spacing, Wrap Text

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