

[This question paper contains 2 printed pages.]

**Sr. No. of Question Paper : 5137**

**F**

**Your Roll No.....**

Unique Paper Code : 234151

Name of the Paper : B.A. CAT-I : Computer Fundamentals

Name of the Course : **B.A. Programme – Computer Application**

Semester : I

Duration : 3 Hours

Maximum Marks : 45

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. **Section A** is compulsory.
3. Attempt any **three** questions from Section B.
4. Parts of a question must be answered together.

**SECTION A**

1. Answer in brief. Marks are given against each part.

(a) Define the following terms :

(i) Motherboard

(ii) Extranet

(2)

(b) How many Megabytes make 1 Terabyte ?

(1)

(c) What does CMOS stand for ?

(1)

(d) Name any two pointing devices.

(1)

(e) List any four uses of Internet.

(2)

(f) Why is system software required in a computer system ?

(2)

(g) Differentiate between :

(i) Serial ports and Parallel ports

(ii) LAN and MAN

(4)

(h) Give a brief description of the three main components of the computer.

(2)

*P.T.O.*

## SECTION B

2. (a) Convert the following numbers to decimal base :
- (i)  $(1100.01)_2$
  - (ii)  $(39.4)_8$
  - (iii)  $(A42.6F)_{16}$  (3)
- (b) Convert the following numbers to octal base :
- (i)  $(1110.11101)_2$
  - (ii)  $(67C9.466)_{16}$
  - (iii)  $(642.68)_{10}$  (3)
- (c) Discuss the importance and functions of ROM-BIOS in detail. (4)
3. (a) Explain the importance of computer networking in today's world. (3)
- (b) What is a web browser ? Explain various types of browsers giving examples of each. (3)
- (c) Describe working mechanism of a hard disk. What is the normal access time on such disks ? Draw a well labelled diagram. (4)
4. (a) Explain URL and its components. (3)
- (b) Explain the utility of a device controller and a device driver for the peripheral devices in a computer system. (3)
- (c) Describe any two soft copy output devices. Give sufficient details. (4)
5. (a) Write about various types of expansion slots used in a computer. (3)
- (b) What is a touch screen? Explain its working in detail. (3)
- (c) Explain various system utilities in use. (4)
6. (a) Differentiate between OCR and MICR scanning techniques. (3)
- (b) Explain the features of any sequential access storage device. (3)
- (c) Differentiate between bus and ring LAN topologies. Give diagrams as well. (4)