

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : 7046 J

Unique Paper Code : 62341101 - OC

Name of the Course : B.A.(Programme)
Computer Application

Name of the Paper : Computer Fundamentals

Semester : I

Time : 3 Hours Maximum Marks : 75

Instructions for Candidates :

- Write your Roll No. on the top immediately on receipt of this question paper.
- Section -A** is compulsory.
- Attempt any **five** questions from **Section-B**.

Section - A

- Explain the use of computers in Education and Government. 2
 - Give full form of the following abbreviations : 3
 - PCB
 - AGP
 - SCSI

P.T.O.

- (c) Define a bit and a byte. What are the two key factors that characterize the memory ? 3
- (d) List any four computers in the category of microcomputer. 2
- (e) Name three pointing devices. Also in which area each pointing device is used ? 3
- (f) Perform the following : 3
- (i) Convert the $(47.75)_{10}$ number into binary
 - (ii) Convert the $(E4.16)_{16}$ number into Decimal
- (g) What is a sign bit ? Which bit is considered as a sign bit when representing a number
- (h) Name and write the functionality of three buses that are involved in the interaction CPU with memory and I/O devices.
- (i) List any two advantages of Cloud computing
- (j) State the purpose of system software

Section - B

2. (a) Differentiate Microcomputer and Minicomputer with examples. 4
- (b) Differentiate between Primary Memory and secondary memory. 4
- (c) Explain the booting process when computer is switched on. 2
3. (a) What is a bootstrap loader? List the different kind of ROM memory. 5
- (b) List the different memories available in the computer in order of their hierarchy with respect to the CPU. 5
4. (a) Give differences between the following : 2+2=4
- (i) SIMM and DIMM memory module
- (ii) Impact printers and Non Impact printers
- (b) Describe hand held scanners and flat-bed scanners with examples. 4
- (c) What are magneto-optical disk ? 2
5. (a) Perform the following : 2+2=4
- (i) Find 1's complement of the number (11000011111)
- (ii) Find 2's complement of the number (1100000100)

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- (b) Perform binary addition of the following numbers : 2
- (i) $(+7) + (-9)$
 - (ii) $(-12) + (+15)$
- (c) How is Unicode different from other binary coding schemes ?
6. (a) Explain any two parameters used to measure the performance of a computer system. 2
- (b) Explain any two functions performed by an operating system. 2
- (c) What do you understand by device driver? Explain.
7. (a) What do you understand by computer virus? How does it work? How to cure the infected system? 2
- (b) Define word size. What are the functions of the control unit? 1
8. Write short notes on the following terms. 2×
- (i) Google Scholar
 - (ii) Monitor
 - (iii) eLibrary
 - (iv) Embedded systems
 - (v) CMOS