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Total No. of Printed Pages: [01]

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B.Sc. (IT) (Semester- 4th)
COMPUTER PERIPHERALS AND INTERFACES
Subject Code: BITE1460
Paper ID: 130423

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) Define cycle stealing in DMA.
- b) List the various types of slots available on motherboard.
- c) Differentiate between ISA and EISA.
- d) How IDE was originated?
- e) Specify the meaning of plug and play technique?
- f) How many devices can be managed by a single SCSI controller?
- g) List the specifications of a Latest Laptop.
- h) What is the purpose of Video RAM?
- i) Write the procedure to test the serial port.
- j) Write the steps to troubleshoot if sound and video fail to work in a PC?

Section – B

(5 marks each)

- Q2. Discuss the various types of DMA channels with special reference to their usage.
- Q3. Figure out the various types of events that could be diagnosed as a resource conflict in a PC.
- Q4. What are the characteristics of PCI bus?
- Q5. Discuss the significant features of all different types of ATA standards.
- Q6. Compare features of SCSI interface over IDE interface.

Section – C

(10 marks each)

- Q7. Discuss the various aspects of cost performance analysis while designing the system?
- Q8. Evaluate the role of device drivers in DOS and LINUX/UNIX.
- Q9. Write short notes on a) Parallel to SCSI converter b) I/O Interfaces from USB and IEEE1394.