

Roll No. ....

Total No. of Questions : 09

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## Paper ID [CS311]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 5<sup>th</sup>)

COMPUTER PERIPHERALS AND INTERFACES (CS - 311)

Time : 03 Hours

Maximum Marks : 60

### Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

### Section - A

Q1)

(10 × 2 = 20)

- a) What is the benefit of using USB?
- b) Differentiate between single-ended SCSI and differential SCSI.
- c) What is AGP?
- d) Differentiate between LCD and TFT?
- e) What is the difference between interlaced and non-interlaced modes of display?
- f) What do you mean by ATA RAID and its significance?
- g) Name various types of slots available on motherboards.
- h) What is VFC? And why it is required?
- i) Can we use multiple monitors on one system? Justify your answer.
- j) What is Video driver and its function?

### Section - B

(4 × 5 = 20)

- Q2) Compare the performance and capabilities of IDE and SCSI interfaces.
- Q3) Differentiate between IRQ channels and DMA channels.
- Q4) Discuss the working of a local bus with the help of block diagram.

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**Q5)** Name various types of video adapters and compare their resolution.

**Q6)** Describe in brief the terms ESP and EPP.

**Section - C**

**(2 × 10 = 20)**

**Q7)** Explain in detail the architecture of video adapter card with the help of a block diagram.

**Q8)** Name two high-speed serial bus architectures used in desktops. Explain in detail their advantages and disadvantages.

**Q9)** Write short notes on any two :

- (a) UNIX device drivers.
- (b) EISA.
- (c) Coprocessors and Accelerators.

