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**Paper ID [CS311]**

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

**MAY-08**

**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.

**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.

