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Total No. of Questions : 09] [Total No. of Pages : 02

Paper ID [A0469]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 5th)

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 x 2 = 20)*

a) Define persistence.

b) What is the purpose of IRQ?

c) What is graphics accelerator and where it is used?

d) What is ISA and what is its function?

e) Write the exact memory requirement for different adapters.

f) Differentiate between SCSI-I and SCSI-II.

g) What is the exact speed and lengths of IOE and SCSI cables?

h) What do you mean by recording density of a magnetic tape?

i) What is bus arbitration?

j) What do you mean by plug and play technique?

Section - B

(4 x 5 = 20)

Q2) What do you understand to interface standards? Explain the characteristics of the simple most interface standard.

Q3) Explain DMA controller in detail.

Q4) Differentiate between
(a) VGA card and SVGA card
(b) CGA and MCGA.

Q5) What do you mean by RAID? Differentiate between ATA RAID and SCSIRAID in detail.

Q6) Discuss the various video display technologies. What is video RAM?

Section - C

(2 x 10 = 20)

Q7) (a) Explain DOS services for diskette and keyboard.
(b) Describe the function and direction of the following signals in centronics parallel interface.
(i) $\overline{\text{STROBE}}$ (ii) $\overline{\text{BUSY}}$
(iii) $\overline{\text{ACKNLG}}$ (iv) $\overline{\text{INIT}}$
(v) $\overline{\text{AUTO FEED XT}}$

Q8) What are the steps involved in design and integration of peripheral devices to computer system? Take many peripheral devices as an example to illustrate the concept.

Q9) a) Describe the problem that occurs when you attempt to connect together two RS-232-C devices that are both configured as DTE. Draw a diagram which shows how this problem can be solved.
b) How CRT monitor displays an image.