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

B. Tech. (Sem. - 5th)

COMPUTER PERIPHERALS AND INTERFACES

SUBJECT CODE : CS - 311

Paper ID : [A0469]

[Note : Please fill subject code and paper ID on OMR]

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) Compare fire wire with USB.

b) What is scan code for keyboard?

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

d) What is EISA and what is its function?

e) What is termination?

f) Differentiate between SCSI-I and SCSI-II

g) What is bus mastering? How it differs from DMA

h) Write main components of the video subsystem PC

i) What is bus arbitration?

j) Comment on 'Monochrome versus colour' monitors?

Section - B

(4 × 5 = 20)

Q2) Explain what are the steps to be taken up to reduce the cost while designing the system.

Q3) How many devices can be interfaced to IDE and EIDE standard interface? Compare the characteristics.

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

Q5) 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.

Q6) What is an interrupt? Which device is used to handle the interrupt in a computer system? Write down the IRQ assignment in the PC/XT and PC/AT.

Section - C

(2 × 10 = 20)

Q7) (a) Explain features of UNIX device driver.

(b) Describe the function & direction of the following signals in centronics parallel interface.

1) $\overline{\text{STROBE}}$ 2) BUSY 3) $\overline{\text{ACKNLG}}$ 4) $\overline{\text{INIT}}$ 5) $\overline{\text{AUTO FEED XT}}$.

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) Write short note on followings:

(a) Programmable I/O Ports .

(b) Programmable interrupt controller.

(c) Programmable peripheral interface .

(d) Programmable DMA controller.

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