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**Question Paper Code : 75506**

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

*Elective*

Computer Technology

XCS 002 — COMPUTER PERIPHERALS AND INTERFACING

(Common to 5 year M.Sc. Software Engineering)

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What do you mean by huge memory models?
2. What is the significance of Co-processor?
3. What are the features of EISA bus?
4. Specify the characteristics of ARINIC.
5. Draw the block diagram of Key board interface.
6. What are the video attributes used to enhance the information of video display on a CRT screen?
7. Write short notes on TSR applications.
8. What do you mean by device drivers?
9. Write the functions of A/D and D/A cards.
10. Differentiate Data logging and Data Acquisition.

PART B — (5 × 16 = 80 marks)

11. (a) (i) What is the function of BIOS in DOS? Explain about the concept of communication between the user program to hardware device via DOS – BIOS. (10)
- (ii) Explain about the interfaces of Co-processors to CPU. (6)

Or

- (b) Explain briefly about the interfacing concepts of SRAMS and DRAMS to PC. (16)

12. (a) (i) Describe about EISA, PCI bus standards and its functions. (8)
- (ii) Explain about the hardware characteristics of 1553 bus architecture. (8)

Or

- (b) Explain briefly about the architectural design, bus protocols and 12 C bus interfaces. (16)

13. (a) (i) Explain about the application specific ICs with example. (8)
- (ii) Discuss about the Hard Disk Controller specifications and features. (8)

Or

- (b) Describe about the following types of Advanced Graphics adapter.
- (i) Monochrome Graphics Adapter (MGA) (6)
- (ii) Super Video Graphics Array (SVGA) (6)
- (iii) Read and Write data operation of CD-ROM (4)

14. (a) (i) Discuss about different types of computer device drivers with suitable example. (8)
- (ii) Write a simple TSR program in C language. (8)

Or

- (b) Explain about the following drivers for peripherals.
- (i) Line Printers. (8)
- (ii) Modem. (8)

15. (a) Explain briefly about the design of IEEE 488 bus structure and its interface functions with neat diagram. (16)

Or

- (b) (i) State the applications of Data loggers. (8)  
(ii) Explain about the concept of interfacing DSP to PC bus. (8)
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