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Question Paper Code : 65047

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 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. Which part of the PC controls the hardware according to the requirements from DOS?
2. Draw the refresh logic for RAM.
3. Mention the standards used for serial communication.
4. Which interface is used to interface smart test instruments with a computer?
5. List the physical difference between a MDA board and CGA board.
6. Specify the objectives of sector interleaving.
7. Write any six important specifications of modem.
8. What are the applications of TSR?
9. Define resolution for A/D converter
10. Give the dedicated devices that can be interfaced to GPIB.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the concepts of large memory models designed for PC. (8)
(ii) Draw the architecture and functional support of Co-processors in detail. (8)

Or

- (b) (i) Describe the interfacing of SRAMS with PC. (8)
- (ii) Explain the BIOS design details in DOS. (8)
12. (a) (i) Explain the interface standards used for long and short distance communications. (10)
- (ii) Discuss the specifications of 1553 bus. (6)
- Or
- (b) (i) Describe the specifications and use of PCI for communication. (8)
- (ii) Write a detailed note on 12C bus. (8)
13. (a) (i) Explain the interfacing of video display unit to PC (9)
- (ii) Draw the circuit description for EGA and state its advantages. (7)
- Or
- (b) (i) Describe the interfacing of CDROM drive to motherboard. (8)
- (ii) Discuss the functional features of SVGA. (8)
14. (a) Describe the complete design of device driver for line printers. (16)
- Or
- (b) With example explain any four TSR programs in C. (16)
15. (a) (i) With suitable diagram explain the operation of A/D card. (8)
- (ii) Briefly write on LAN interface card. (8)
- Or
- (b) (i) Describe the circuit and control signals for interfacing DSP to PC. (10)
- (ii) Write notes on data loggers. (6)