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A – 3876

Reg. No. :

Name :

**Seventh Semester B.Tech. Degree Examination, June 2016
(2008 Scheme)**

08.705(2) : COMPUTER HARDWARE AND INTERFACING (Elective – II) (R)

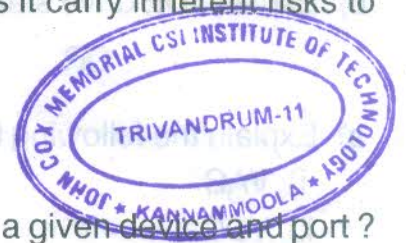
Time : 3 Hours

Max. Marks : 100

PART – A

(10×4=40 Marks)

1. What are the different modes of operations that are evolved for a processor ?
Explain any one mode of operation.
2. What is the purpose of CPU overclocking ? How does it carry inherent risks to the CPU ?
3. Differentiate DIMM and SIMM.
4. How do you allocate and enable system resources for a given device and port ?
5. List some power-supply testing equipments to determine whether a power supply is operating fully within all required specifications.
6. What is the necessity to use ATA I/O cable ?
7. What are the four possible jumper configurations that are virtually accounted for connecting the IDE devices ?
8. What is the purpose of IEEE 1284 mode ? List the four different elements of IEEE 1284.
9. Briefly describe the characteristics of video adapters.
10. What are the different ways in which the keyboard layout is designed ?



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PART - B

(3x20=60 Marks)

Module - I

11. a) Explain how the CPU, the mother board and CPU cooling influence CPU over clocking. 10
- b) Explain the different types of memory modules used in the PC. 10

OR

12. a) Draw the block diagram of a typical Pentium 4 mother board and explain the function of various blocks. 10
- b) Explain the boot process and BIOS compatibility issues. 10

Module - II

13. a) Explain the block diagram of a typical hard drive electronics system. 10
- b) Explain IDE drive standard and its features. 10

OR

14. a) Explain the following terminologies involved in power supply. 10
- i) VAG
 - ii) VDC
 - iii) Current
 - iv) Voltage regulation
 - v) OV protection.
- b) Explain the various data transfer protocols that are commonly used for IDE drives. 10

Module - III

15. a) Draw the block diagram of the AGP interface and explain the function of each block. 10
- b) Explain the function of the signals on a PCI bus. 10

OR

16. a) Discuss the array of features provided in 3D graphics accelerators. 10
- b) Describe the various video memory types that are used for video adapters. 10