



Reg. No. :

Name :

**Third Semester B.Tech. Degree Examination, December 2012
(2008 Scheme)**

08.306 : COMPUTER ORGANIZATION (RF)

Time : 3 Hours

Max. Marks : 100

PART - A



(10×4=40 Marks)

Answer **all** questions.

1. What is the difference between application software and system software ?
2. Define assembler directives with example.
3. What is the use of stack in a subroutine call ?
4. Draw the block diagram of hardwired control unit.
5. Explain the concept of DMA.
6. Explain the sequencing of control signals when a memory write operation is performed.
7. Discuss about SCSI.
8. What is the principle of locality of reference ?
9. Explain the logical to physical address translation in paging.
10. Explain RAID.

PART - B

Answer **any one** question from **each** Module.

Module - I

11. a) Explain the functional units of a computer with a neat block diagram. 10
- b) Explain the two types of instruction sequencing. 10

OR

12. a) Discuss about the different types of bus structure. 10
- b) Explain about stack and queue. 10

**Module – II**

13. a) Explain about microprogrammed control unit. 10
b) Discuss about various I/O interfacing circuits. 10

OR

14. a) What is an interrupt ? What are the different methods for handling interrupts ? 10
b) Differentiate microprogrammed control unit and hardwired control unit. 10

Module – III

15. a) Illustrate the internal organization of a memory chip. 10
b) Discuss the principle of associative memory. 10

OR

16. a) Compare and contrast semiconductor RAM's and Semiconductor ROM's. 10
b) Explain the principle of Segmentation. 10
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