FACULTY OF INFORMATICS

B.E. 2/4 (IT) II Semester (Main) Examination, May/June 2011
COMPUTER ORGANIZATION AND MICROPROCESSOR

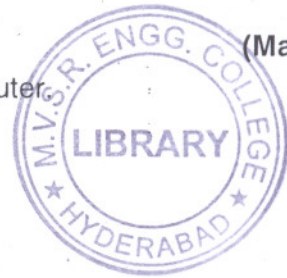Time : 3 Hours]   [Max. Marks : 75

Note : Answer **all** questions from Part A. Answer any **five** questions from Part B.

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PART – A   (Marks : 25)

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1. Give the basic operational concepts of a computer.   2
2. Write the advantages of CISC.   2
3. Write about multiprocessors.   3
4. Explain USB.   3
5. Mention some of memory management requirements.   3
6. Define cache memory.   2
7. Explain generate and propagate functions in carry and look ahead adder.   3
8. Explain shift and rotate instructions.   3
9. Write the functions of Interrupt routines.   2
10. Write features of module programming.   2

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PART – B   (Marks : 50)

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11. (a) Write short notes on Interface circuits with example.   5
    (b) Explain about Interrupts.   5

12. (a) Explain about virtual memories.   5
    (b) Write short note on secondary storage.   5

13. Explain fast multiplication with example.   10

14. Explain addressing modes of 8086 with examples.   10

15. Explain Hardwired control and microprogrammed control units.   10

16. Explain different data transfer instructions with examples.   10

17. Write short notes on :   5 + 5
    (a) I/O design with example
    (b) DMA

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