



Code No. : 5280

FACULTY OF INFORMATICS
B.E. 2/4 (IT) II Sem. (Suppl.) Examination, January 2012
COMPUTER ORGANIZATION AND MICROPROCESSOR

Time: 3 Hours]

[Max. Marks: 75

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

PART – A

(25 Marks)

1. Give the functional units of Computer. 2
2. Write advantages of RISC. 3
3. Explain PCI. 3
4. Explain performance considerations of the memory. 3
5. Explain the principle 'locality of reference'. 2
6. Differentiate Hardwired control and Microprogrammer control. 2
7. Explain integer division with an example. 3
8. Write the sequence of operations to add the contents of Register R1 to the result in register R3. 3
9. Explain Branch instructions. 2
10. Write procedures on modular programming. 2

PART – B

(50 Marks)

11. a) Write short notes on Buses of a computer system. 5
b) Explain about DMA controller. 5
12. a) Discuss about semiconductor RAM memories. 5
b) Explain memory hierarchy interms of speed, cost and size. 5

13. Explain floating point numbers and operation with example. 10

14. Write short notes on :

a) Translation of Assembler instructions. 5

b) The 8088. 5

15. Explain about programmed I/O interrupt I/O. (5+5)

16. Write short notes on :

a) Logical instructions (5+5)

b) Assembly process.

17. Write short notes on :

a) MACROS

b) Stacks. (5+5)