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IT-228**B.E. IV Semester**

Examination, June 2017

Choice Based Credit System (CBCS)**Computer Architecture****Time : Three Hours****Maximum Marks : 60**

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Describe Von Neumann model with the help of diagram.
b) Using 8 bits 2's complement integer, show how to perform the subtraction operation 18-16.
2. a) What is the decimal value of the following unsigned binary integers?
b) Explain hardwired micro-programmed control unit.
3. a) What are different addressing modes? Explain each of them.
b) Write comparison between RISC and CISC.
4. a) Explain DMA with the help of block diagram.
b) Explain how a stack is implemented in the memory system of a computer.
5. a) Explain about auxiliary and associative memory.
b) Describe the concept of virtual memory.

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6. a) Write comparison between paging and segmentation.
b) Explain any page replacement algorithm with the help of example.
7. a) What do you understand by multiprocessor? Write its characteristics.
b) Explain arithmetic pipelining.
8. Write a short note on:
a) Matrix multiplication
b) Priority interrupt
c) Instruction format

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