Roll No ....

CS-225

B.E. IV Semester

Examination, June 2017

Choice Based Credit System (CBCS)

Computer System Organization

Time : Three Hours

Maximum Marks: 60

Note: i)   Attempt any five questions.

ii)   All questions carry equal marks.

1. a)   What are different addressing modes? Explain with the help of example.

    b)   Explain about control word with the help of diagram.

2. a)   Explain general register organization.

    b)   Draw instruction format and explain.

3. a)   Describe about fetch and execution cycle.

    b)   Explain the steps of execution of micro instruction.

4. a)   Using 8 bit two's complement integers, perform the following computations.

    i) $-35 + (-11)$

    ii) $19 - (-4)$

    b)   Find which is the best case for implementing Booth's algorithm for a multiplier.

    Multiplier 01111100   01110110   00000111   01010101

5. a)   Write comparison between serial and parallel data transfer.

    b)   Draw the block diagram of DMA and explain.

6. a)   What are different Mapping schemes? Explain.

    b)   Explain the concept of virtual memory.

7. a)   Write comparison between RISC and CISC.

    b)   Explain vector processing and Array processing.

8. Write short notes on:

    a)   Multiprocessor

    b)   BUS structure

    c)   Cache structure

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