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Roll No

CS/IT - 402

B.E. IV Semester

Examination, June 2016

Computer System Organization

Time: Three Hours

Maximum Marks: 70

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Answer five questions. In each question part A, B, C is Note: i) compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- Why address and data bus are multiplexed?
 - What is auxiliary memory? b)
 - Explain the features of Non-Neumann Model.
 - What is instruction format? Explain various instruction format.

OR

Explain different micro operation with example.

Unit - II

- Define Micro-Program. 2. a)
 - What is nano programmed control unit?
 - Differentiate between hardware control unit and micro c) programmed control unit.
 - Hardware control unit is faster than micro program control unit. Justify this statement.

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OR

How is multiplication of floating point number achieved? Explain using flow chart.

Unit - III

- What is DMA?
 - What is the role of a priority interrupt?
 - What do you mean by serial transmission and parallel transmission of data?
 - Compare and contrast DMA and I/O processors.

OR

Explain daisy chaining priority for data transfer.

Unit - IV

- What is memory hierarchy?
 - What are the characteristics of cache memory?
 - Write about the hardware for memory management.
 - Explain how associative memory page table is used for effective storage utilization.

OR

With the help of diagram explain how cache is used in cache organization. Explain mapping techniques.

Unit - V

- - What is inter-connection network?
 - c) Define multiprocessor. Explain clearly the characteristics of multiprocessors.
 - Differentiate between arithmetic and instruction pipeline.

Give definition of vector processing. And enlist its

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What is Flynn's Taxonomy? OR application.