Roll No.....

## MCA - 505(A)MCA. V Semester

Examination, December 2015

## Distributed Systems c) To what extent (III - svitse) atomic multi-esting

Time: Three Hours

Maximum Marks: 70

- Note: i) Answer five questions. In each question part A, B, C is 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 ESOD wodu minigzil (b.

Define Degree of transparency.

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- What is the role of middle wave in a distributed system? b)
- Explain about interceptors. Also centres its uses.
- Discuss about different architectural styles briefly.

OR

Explain different types of distributed systems.

# Unit - II

- Would it make sense to limit the number of threads in a 2. a) server processes?
  - Define mutual exclusion in distributed system.
  - Differentiate between logical clocks and physical clocks.

Describe Bell algorithm with example.

OR

Explain ring algorithm with the help of example.

#### Unit - III

- Define sequential consistency.
  - Define fault tolerance.
  - To what extent is scalability of atomic multicasting important?
  - Explain about secure socket layer.

OR

Explain different types of consistency protocols.

### Unit - IV

- What is difference between remote objects and distributed objects.
  - Explain whether or not MFS is to be considered a distributed file system.
  - What is file locking?
  - Explain about CORBA.

OR

Discuss design issues of distributed file systems.

#### Unit - V

What is MIME? 5. a)

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- What is Orbix?
- Differentiate static and dynamic RMI.
- Explain general organization of Java space in jini.

Describe about replication for web hosting systems.

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