Roll No

MCTA - 205 M.E./M.Tech., II Semester

Examination, December 2015

Distributed System

Time: Three Hours

Maximum Marks: 70

Note: Total number of questions eight. Attempt any five questions. All questions carry equal marks.

- Discuss briefly the various issues related to distributed system design.
 - RPC support systems provide various tools, including a runtime library. What does this library contain?
- Differentiate between a distributed operating system and a network operating system.
 - Name the main components of a distributed file system. What might be the reasons for separating the various functions of distributed file system into these components?
- What are distributed objects and how these are implemented in distributed systems?
 - What are the requirements for distributed mutual exclusion algorithms?

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5.	a)	Discuss various algorithms used for deadlock detection
		in distributed system.

Explain the major differences between external and internal synchronization of clock in distributed systems.

What is Distributed Multimedia? Write the characteristic

Explain in brief transaction recovery in distributed system.

Explain the following:

- Cryptography pragmatics
- ii) Fault tolerant services

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of multimedia data.

- iii) Digital Signature
- iv) Highly available services
- Explain flat and nested transaction with suitable example.
 - How distributed system can be scaled? What problems arise during the scaling of the systems?

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- Events and notification
- Stream oriented communication
- Global states
- Distributed deadlocks
- Transaction with replica data