



Name :

Roll No. :

Invigilator's Signature :

**CS/M.TECH (IT)/SEM-2/PGIT-201/2013
2013**

DISTRIBUTED COMPUTING SYSTEMS

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer all questions.

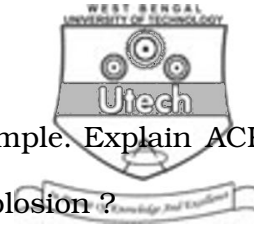
5 × 14 = 70

1. Explain the working of RPC with the help of suitable diagram. Distinguish between Distributed and Network Operating Systems. Discuss clock synchronization mechanism in distributed operating system.
2. What is CORBA ? Explain the working of CORBA as middleware. Explain the working of Distributed File System with one example.
3. What are the differences between Load Balancing Approach and Load Sharing Approach ? Load Balancing in the strictest sense is not achievable in Distributed system. Discuss. What is Process Migration ? What is the Freezing time ? Discuss the Address Space Transfer Mechanism in Process Migration.

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4. Explain Atomic Multicast with proper example. Explain ACK Explosion ? How can you prevent ACK Explosion ?
5. What are the challenges of Mobile Computing ? Explain the following WAP, GPRS, Bluetooth and Mobile IP.

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