



**R15**

Code No: 824AF

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA IV Semester Examinations, October/ November - 2020**

**DISTRIBUTED SYSTEMS**

**Time: 2 Hours**

**Max.Marks:75**

**Answer any five questions  
All questions carry equal marks**

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1. Discuss the challenges in designing distributed systems. [15]
2. Discuss about RPC and RMI, also mention the differences between them. [15]
- 3.a) What are the requirements of distributed file system?  
b) Explain about X.500 Directory service. [15]
4. Discuss in detail about file service architecture. [15]
5. Explain the following:  
a) Peer to Peer middleware                      b) Consensus problem. [15]
6. What is an election algorithm? Explain various election algorithms used in distributed systems. [15]
7. Explain Concurrency control schemes based on timestamp ordering. [15]
8. Describe the system model for page-based DSM. [15]

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