Code No: 824AF

R15

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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