

18 DEC.2025 MCA (SEM-III) CHOICE BASED DSCC QP CODE: 10093375

(3 Hours)

Total Marks: 80

Note: 1) Question No.1 is compulsory.

2) Attempt any THREE from the remaining questions.

3) Figures to the right indicate full marks.

1. Write Short Notes on any four :- (20)
 - a) Complicated RPC's
 - b) Pipeline Thread Model
 - c) Drifting of the Clock
 - d) State full and Stateless file Servers
 - e) Mutual Exclusion

2. (a) What are the load sharing policies used for distributed system? 10
(b) Explain Cloud Computing and various types of the same. 10

3. (a) Explain various Distributed Computing Models. 10
(b) Discuss the issues in designing and implementing DSM systems. 10

4. (a) What is multi-datagram messaging? Explain the failure handling techniques in IPC 10
(b) What are the issues in data security in cloud computing? 10

5. (a) Discuss various Election algorithms in detail. 10
(b) Discuss the clock synchronization algorithms used for distributed systems. 10

6. (a) Explain the desirable features of a good distributed file system 10
(b) What is Group communication? Explain in detail message ordering techniques. 10

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