Roll No ....

MCADD-802
M.C.A. (Integrated), VIII Semester
Examination, May 2023
Distributed Systems

Time : Three Hours

Maximum Marks : 70

Note : i)   Attempt any five questions.

ii) All questions carry equal marks.

1. a)   What is Distributed System? Discuss its important goals.

b)   Describe the various RDC protocol supporting a client server communications.

2. a)   Why architectural model is important in the distributed system design? Also discuss the resource sharing and its importance.

b)   What are the transparency issues associated with distributed systems? Explain tunneling with example.

3. a)   What is the need of clock synchronization in distributed system?

b)   What are the requirements for distributed mutual exclusion algorithm?

4. a)   Explain significance of a fault tolerant service with fragmented and replicated data system.

b)   Differentiate between Caching and Replication.

5. a) Discuss the goals and design issues of distributed file system.

   b) Write a brief note on sun network file system.

6. a) Explain Distributed shared memory architecture and its types.

   b) Explain File sharing semantics and File catching scheme.

7. a) What is a Middleware? What do we expect it to solve? Illustrate with CORBA.

   b) Explain shared memory consistency model.

8. Write short notes:
   a) ActiveX
   b) World Wide Web
   c) Java RMI
   d) Orbix

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