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Reg. No. :

Name :

Third Semester M.Sc. Degree Examination, November 2022

SDE

Computer Science

Core Course

DCS 32 : DISTRIBUTED SYSTEMS AND CLOUD COMPUTING

(2017 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

PART – A

Answer all questions. Each question carries 3 marks.

1. What is RPC?
2. State the attributes of events in distributed systems.
3. List out the advantages of distributed systems.
4. Write the significance of Andrew file system.
5. What is nested transaction in distributed system? How does it work?
6. What is data replication? List out the few strategies used for data replication.
7. What is SaaS? Name any six applications of SaaS.

P.T.O.

8. What is meant by infrastructure as a service in cloud environment? What is included in IaaS?
9. What is meant by Platform as a service? Give examples.

PART – B

(9 × 3 = 27 Marks)

Answer **any two** questions from **each** Module. Each carries **8** marks.

Module – I

10. Elucidate the important functions of distributed computing.
11. Describe the various models of distributed computing.
12. Analyse the necessary operating system support for distributed computing.

Module – II

13. Explain the file service architecture model with necessary illustration.
14. Explain the various mechanisms used for concurrency control in nested transactions.
15. Explain about the fault tolerant services in distributed systems.

Module – III

16. Elaborate on the advantages and disadvantages of cloud-based data storage.
17. Explain about SOA of cloud computing environment.
18. Examine the layers types and uses of cloud.

(6 × 8 = 48 Marks)