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E – 5582

Reg. No. : ....

Name : ....

Eighth Semester B.Tech. Degree Examination, October 2018

(2008 Scheme)

08.804 : DISTRIBUTED SYSTEMS (R)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

1. What are the technological advancements on mobile and ubiquitous computing ?
2. Cloud computing is also coming under distributed system concept. Justify.
3. What are the different physical models of distributed systems ? Explain.
4. Show the role of client and server stub-procedures in RPC.
5. Compare between open and closed groups.
6. Draw and explain server threading architectures.
7. How to make invocations concurrently with asynchronous operation ?
8. What are the requirements of distributed file systems ?
9. State "lost update problem" in concurrency control.
10. What is time stamp ordering concurrency control ? **(10×4=40 Marks)**

P.T.O.

PART – B

Answer **any one full** question from **each** Module.

Module – I

11. a) What are the significant challenges encountered by distributed systems ? How to overcome the challenges ? 10

    b) How distributed computing is mapped with utility computing ? 10

OR

12. a) Explain the failure model of distributed system. 10

    b) Elaborate the IP routing concepts used in the internet. 10

Module – II

13. a) Explain the working principles of UDP datagram communication. 10

    b) What is marshalling ? Why is it needed ? 10

OR

14. a) What are the design issues for RPC ? Discuss them. 10

    b) Draw and explain the operating system layers. 10

Module – III

15. a) Write a case study on sun network file system. 10

    b) What are the needs of locks in transactions and concurrency control. 10

OR

16. a) Explain two phase commit protocol. 10

    b) Explain distributed deadlocks with neat diagram. 10

(3×20=60 Marks)