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H – 2968

Eighth Semester B.Tech. Degree Examination, November 2019

(2013 Scheme)

13.803: DISTRIBUTED SYSTEM (R)

Time: 3 Hours

Max. Marks: 100

PART – A

Answer **ALL** questions. Each question carries **4** Marks.

1. Which are the Parameters which affect the network Performance?
2. Distinguish between synchronous and asynchronous communication.
3. How can the Kernel be protected in a distributed operating system?
4. What are the requirements for a distributed file system?
5. What do you mean by phantom deadlocks?

PART – B

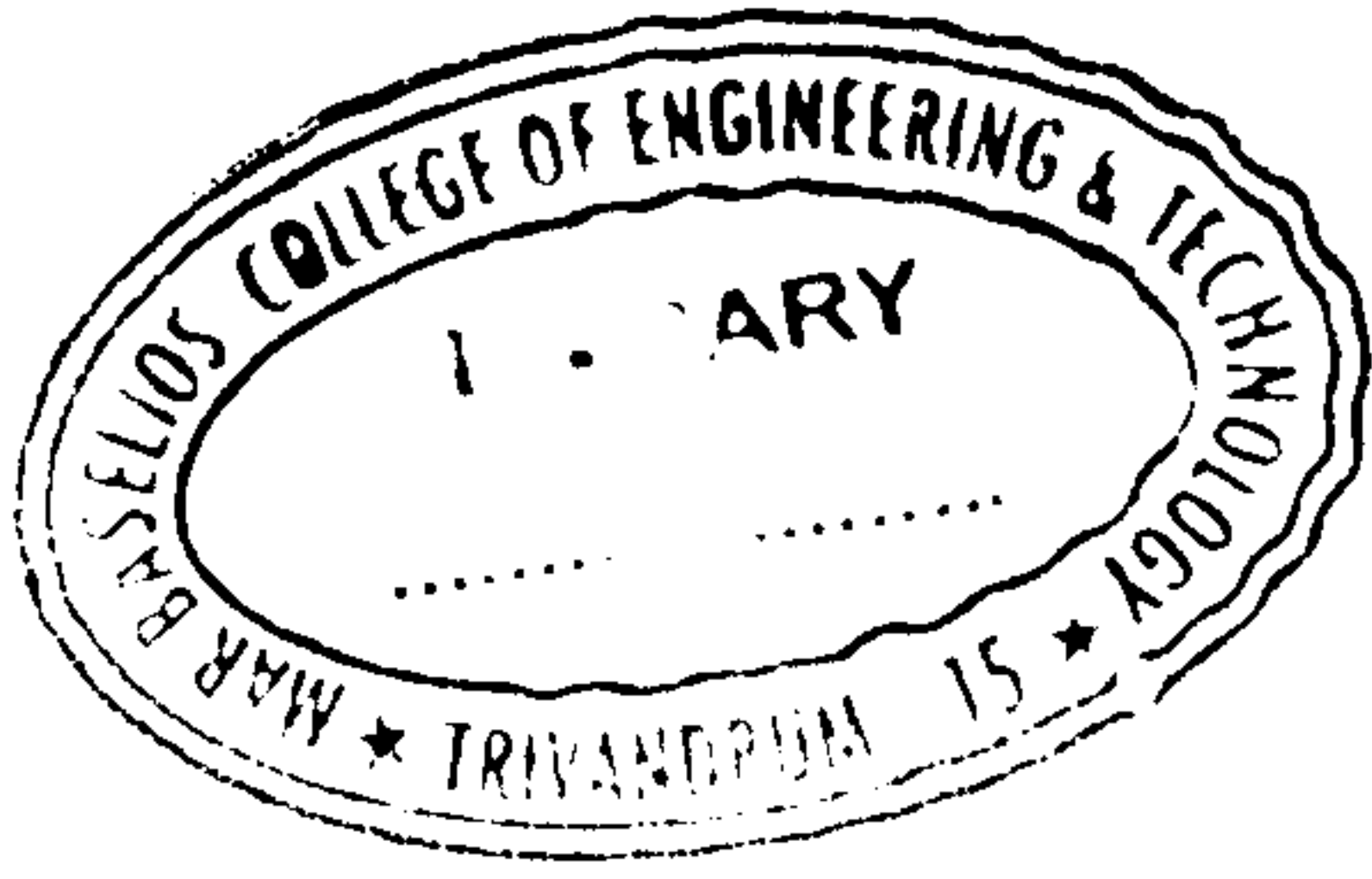
Answer any one full question from each module

Module – I

6. (a) Explain about the various challenges that arise in the design of distributed Systems. (12)
 - (b) Write short notes on
 - (i) Client server model (4)
 - (ii) Peer to peer model (4)
- OR
7. (a) Explain about failure model of distributed system. (10)
 - (b) How is routing done in the IP layer? (10)

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Module II

8. (a) Describe about the design issues in Remote Procedure call mechanism. (10)
(b) How does UDP datagram communication done? (10)

OR

9. (a) What is request-reply protocol? Explain the structure and working of request-reply protocol. (15)
(b) What are the Characteristics of multicast messages? (5)

Module – III

10. (a) How is process creation mechanism designed in a distributed system? (10)
(b) Explain about the various security techniques used in the distributed system (10)

OR

11. (a) How is communication and invocation mechanism implemented in a distributed operating system? (10)
(b) Explain about the Kernel architecture suitable for distributed operating system. (10)

Module – IV

12. (a) What do you mean by edge chasing? (5)
(b) Describe briefly about Network File System. (15)

OR

13. (a) Explain how passive replication for fault tolerance is done? (10)
(b) How can concurrency control be done in a distributed System? (10)

