



(Pages : 2)

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Reg. No. : .....

Name : .....

**Eighth Semester B.Tech. Degree Examination, April 2014  
(2008 Scheme)  
08.806B : DISTRIBUTED SYSTEMS (F)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions :

1. What are the significant consequences of distributed systems ?
2. What are the main types of network that are used to support distributed systems ?
3. Discuss in detail characteristics of interprocess communication.
4. Discuss in detail design issues for RMI.
5. Explain atomic transaction.
6. What are the various participants in distributed event notification ?
7. Distinguish between thread-per-request and thread-per-connection.
8. Write short request-reply protocol.
9. Discuss in detail TCP stream communication.
10. What is active replication ?

**(10×4=40 Marks)**

P.T.O.



## PART – B

Answer **any one** question from **each** Module. **Each** question carry **20** marks.

**Module – I**

11. Explain in detail various challenges which are faced during the construction of distributed systems. 20

OR

12. a) What are the design requirements for distributed architectures ? 12

b) Write short note on IP version 6. 8

**Module – II**

13. a) Explain in detail Java API for UDP datagrams. Give example. 10

b) Write short note on java object serialization. 10

OR

14. a) Write short note on distributed object model. 10

b) Explain in detail the role of proxy and skeleton in remote method invocation. 10

**Module – III**

15. Explain in detail file service architecture. 20

OR

16. a) Discuss in detail optimistic concurrency control. 10

b) Explain in detail lightweight remote procedure call. 10