(Pages : 2)

D – 3570

Reg. No. : .....

Name : .....

Eighth Semester B.Tech. Degree Examination, December 2017
(2008 Scheme)
08.806 B : DISTRIBUTED SYSTEMS (F)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. Define distributed systems. Give examples.

2. Classify the following events on types of failure :

   a) Network crash.

   b) System reset while working.

   c) Sudden shut down of the system.

   d) Unnoticed event handler closing a word document.

3. Differentiate between TCP and UDP.

4. How MobileIP routing mechanism works ?

5. What is Marshalling ?

6. Write short note on replication.

7. What are the characteristics of inter-process communication ?

8. Define deadlock.

9. What is starvation ?

10. What are the main four tasks of group membership service ?

P.T.O.

PART – B

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

Module – I

11. a) Compare client-server and peer-to-peer system architectures. **10**

    b) Explain the OSI protocol model. **10**

OR

12. Explain in detail the various fundamental system models of a distributed system. **20**

Module – II

13. a) Discuss in detail request-reply protocol. Give an example. **10**

    b) Describe the Java API for TCP streams client server communication using socket. **10**

OR

14. a) Discuss in detail Remote Procedure Call (RPC). **10**

    b) With a neat diagram discuss the various roles played by an object that participate in a distributed event notification system. **10**

Module – III

15. Explain in detail Locks and Deadlocks. **20**

OR

16. Discuss in detail Network File System (NFS). **20**
