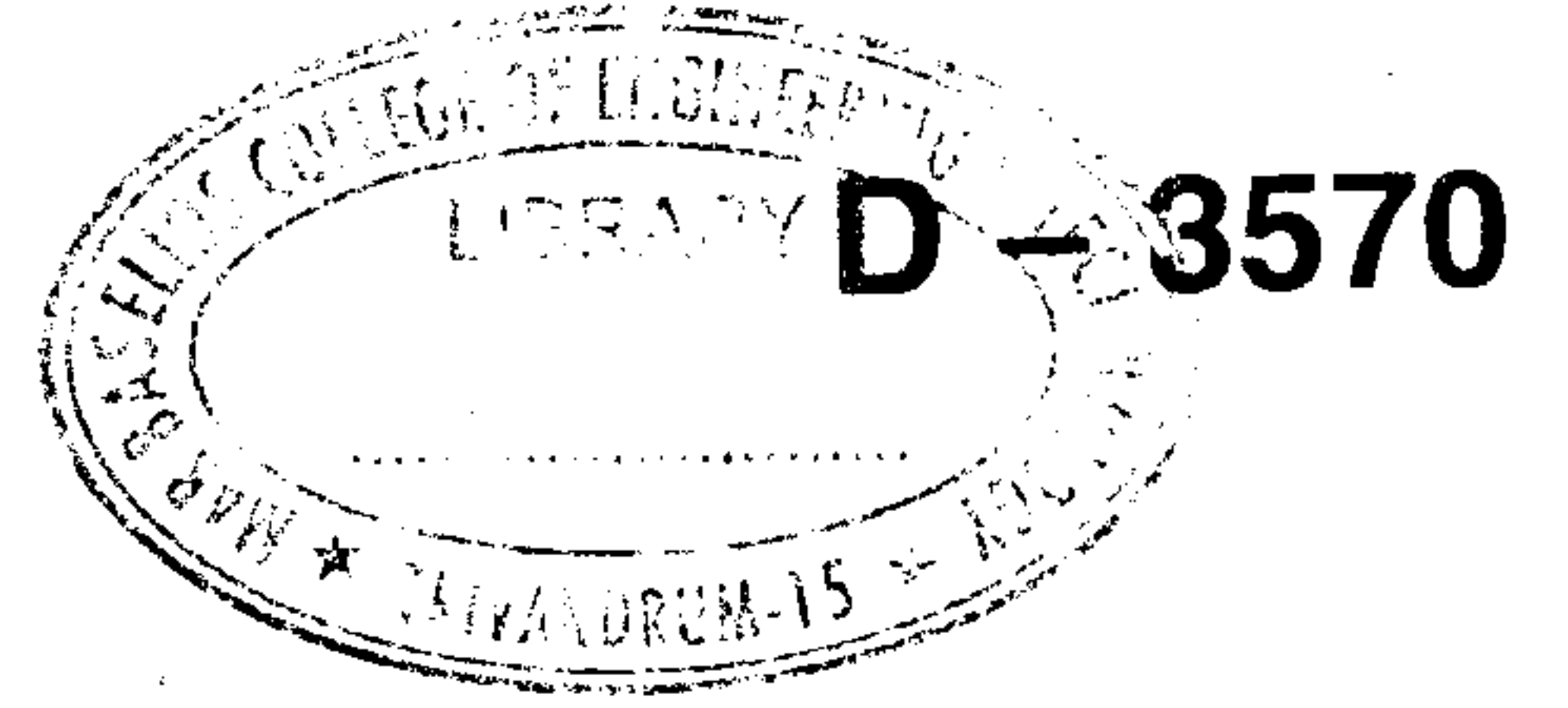




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Reg. No. : .....

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**
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