

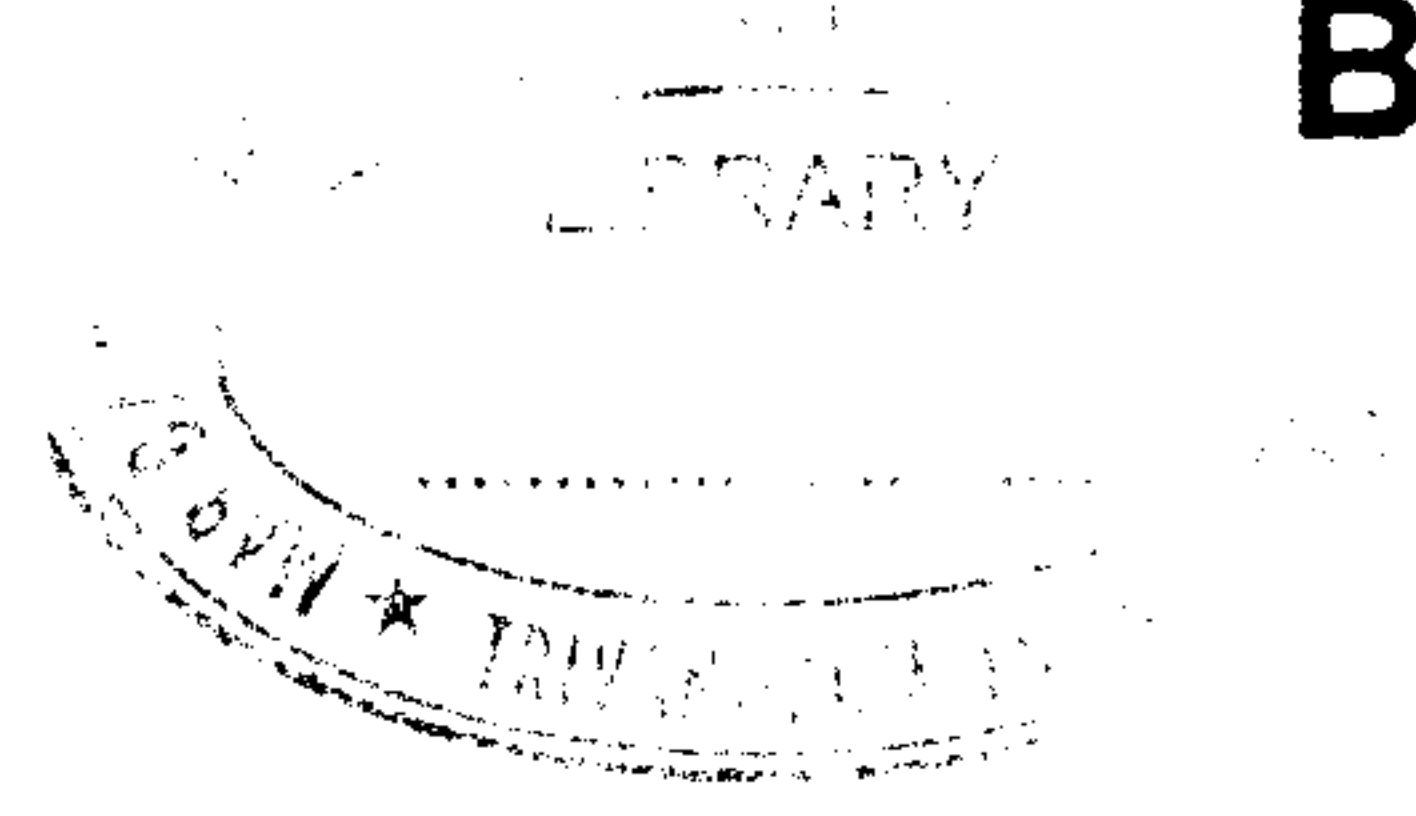


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B – 2670

Reg. No. :

Name :



**Eighth Semester B.Tech. Degree Examination, December 2016
(2008 Scheme)**

08.804 : DISTRIBUTED SYSTEMS (R)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

(10×4=40 Marks)

1. What are the main objectives of distributed systems ?
2. Why do we need locational transparency and login transparency in distributed systems ?
3. Differentiate static and dynamic invocation methods.
4. What is external data representation ? What are the various representation formats ?
5. What is marshaling and unmarshaling ?
6. What are the various interprocess communication mechanisms ? Compare.
7. What is the use of RMI registry ?
8. Give examples for group communication mechanisms.
9. What are the different types of distributed file systems available ?
10. What is ACID property of transactions ?

PART – B

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

(3×20=60 Marks)

Module – I

11. a) State and explain the challenges of distributed systems.
b) With neat diagram explain the various client server models.

OR

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- 12. a) Describe the networking aspects in distributed systems highlighting network heterogeneity and protocol heterogeneity.
- b) Describe the features of world wide web and web services.

Module – II

- 13. a) Discuss the design and implementation issues in Remote Method Invocation.
- b) Explain how inter process communication is handled in UNIX.

OR

- 14. What are threads ? Explain the various types of multi-threaded architectures with neat sketch.

Module – III

- 15. a) What is Deadlock ? What are the various ways of detecting deadlock in distributed environment ?
- b) What is two-phase commit protocol ? Discuss the algorithm with an example. What are its limitations ?

OR

- 16. a) Explain the requirements of distributed file system.
- b) Explain the architecture and server operation of NFS.