B.Tech III Year II Semester (R09) Supplementary Examinations December 2016

DISTRIBUTED SYSTEMS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

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1 (a) What is URL? What is its use? Explain with the help of different simple examples.
   (b) What are the main features of HTTP?

2   With the help of an example, explain the building of client/server programs in java RMI.

3 (a) What are the applications that demand peer to peer systems?
   (b) What are the lessons to be learned from Napster?

4 (a) Write the criteria for evaluation of algorithms for mutual exclusion.
   (b) Write the limitations of central server algorithm for mutual exclusion.

5 (a) Briefly explain two version locking. List out the advantages over ordinary read-write locking scheme.
   (b) What is the basic working principle of hierarchical locks? Explain with supporting examples.

6 (a) How recovery is achieved in nested transactions? Explain supporting procedural steps.
   (b) Define replication. List out and explain supporting motivations.

7   Explain threats from mobile code. Discuss briefly information leakage.

8 (a) Explain the importance of immutable data in DSM with an example.
   (b) Briefly discuss weak consistency model with suitable example.

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