B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2015/2016
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)   In what way distributed system is useful for ubiquitous computing?
    (b)   What is the role of a global clock in a distributed system?
    (c)   How resources are shared in a distributed system?

2   (a)   What is the role of client and server stub procedures in RPC?
    (b)   What is the use of Events in RMI?

3   (a)   What is the difference between structure and unstructured peer to peer systems?
    (b)   What is a squirrel web caching services?

4   (a)   Explain the central server algorithm for mutual exclusion.
    (b)   Briefly explain distributed garbage collection.

5   Compare and contrast between concurrency control and optimistic concurrency control.

6   (a)   What is the optimistic concurrency control? Explain with example.
    (b)   Why you need validation rules? List out and explain them in distributed transactions.

7   (a)   Why you need credentials? Explain them.
    (b)   Discuss in detail about Firewalls.

8   (a)   Explain the granularity of sharing data in DSM.
    (b)   What is thrashing? How it occurs? Suggest suitable solutions.

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