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B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2016

DISTRIBUTED SYSTEMS

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70

> Answer any FIVE questions All questions carry equal marks

- (a) Explain the architectural styles of a distributed system.
 - (b) How the openness of a distributed system is achieved
- 2 What are the requirements of a distributed file system?
- 3 (a) Explain the storage organization of ocean store objects.
 - (b) What are the types of identification used in ocean store?
- 4 (a) What are overlapping groups?

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- (b) What are the problems of agreement?
- 5 What is multiversion timestamp ordering? List out and explain supporting rules.
- 6 (a) Explain how two-phase commit protocol works for nested transactions.
 - (b) Discuss the role of commit and abort operations in nested transactions.
- (a) Explain birthday attack with example. What is birthday paradox?
 - (b) List out and explain the features of MD5 and SHA-1 algorithms.
- Discuss other consistent models with examples in a Distributed Shared Memory. rels with the second se 8