

**Code: 9A05604**

**R09**

B.Tech III Year II Semester (R09) Regular & Supplementary Examinations June 2014

**DISTRIBUTED SYSTEMS**

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) What is the main motivation for constructing a distributed system?  
(b) What are the challenges arising from the construction of a distributed system?
- 2 (a) What is persistent object?  
(b) How the distributed garbage collector works in cooperation with local garbage collector?
- 3 How DNS stores the databases using multiple servers?
- 4 (a) What is the use of election algorithm?  
(b) Explain the ring based election algorithm.
- 5 List out and explain the problems of concurrent transactions.
- 6 What are the tasks of recovery manager? Discuss different transaction states performed by server.
- 7 How to secure electronic transactions using secure sockets? Explain any suitable protocol.
- 8 (a) How language mapping is presented in CORBA? Explain with example.  
(b) Explain the procedure to integrate CORBA with web services.

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