Code: 9F00405a

MCA IV Semester Regular & Supplementary Examinations September/October 2014
DISTRIBUTED SYSTEMS
(For students admitted in 2009, 2010, 2011 and 2012 only)

Time: 3 hours   Max Marks: 60

Answer any FIVE questions
All questions carry equal marks
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1 (a) State differences between distributed and centralized system.
   (b) Explain the types of network in distributed system.
   (c) Discuss about internet protocols in distributed system?

2 (a) For IPC, explain client-server communication.
   (b) Explain internal data representation in IPC.
   (c) Write a short note on IPC in UNIX.

3 (a) Write a short note on RPC protocol.
   (b) Give a description of Java RMI.
   (c) Define communication between distributed objects.

4 (a) What is protection in operating system support?
   (b) Write a short note on operating system architecture.
   (c) Explain the operating system layer.

5 (a) What is file-server architecture in DFS?
   (b) Differentiate between Sun network file system and Andrew file system.
   (c) Write a short note on distributed file system.

6 (a) What is time stamp ordering?
   (b) Explain logical and physical clock.
   (c) What are directory services? Explain it in content of name services.

7 (a) What are distributed deadlocks?
   (b) Explain atomic commit protocols and concurrency control in distributed system.
   (c) How authentication and key distribution is done in distributed system?

8 (a) Write a short note on chorus.
   (b) What are different consistency models in distributed shared memory?
   (c) What is sequential consistency and Ivy?

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