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

- 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?
