

Code: 9F00405a

MCA IV Semester Supplementary February 2014 Examinations

DISTRIBUTED SYSTEMS

(For 2009, 2010 & 2011 admitted batches only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Write down the characterisation of distributed system.
(b) How is internetworking done in distributed system?
(c) Write a short note on networking principle in distributed system.
- 2 (a) Write a short note on IPC for interprocess communication.
(b) Explain marshaling for IPC.
(c) Give a brief description on API for internal protocol.
- 3 (a) Explain the basic RPC operation.
(b) What are events and notification in distributed object communication?
(c) What is remote invocation?
- 4 (a) Differentiate the terms threads and processes.
(b) What is communication and invocation in operating system support?
(c) Give a brief description on operating system support.
- 5 (a) Short note on Andrew file system.
(b) What is file service architecture?
(c) Explain sun network file system.
- 6 (a) What is directory service?
(b) Explain logical clock algorithm.
(c) What is concurrency control in distributed file transaction?
- 7 (a) Why are transactions needed in a file service?
(b) Explain digital signature with respect to distributed system.
(c) What are hierarchical and group masking of faults?
- 8 (a) Write a short note of MACH.
(b) Give a brief description on distributed memory
(c) In short explain design issues of distributed shared memory.
