

Code: 9F00405a

MCA IV Semester Regular & Supplementary Examinations July 2015

DISTRIBUTED SYSTEMS

(For students admitted in 2009, 2010, 2011, 2012 and 2013 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) What makes a distributed system different from client-server technology?
(b) How can you say World Wide Web is an example of distributed system?
- 2 (a) What is the functionality of fundamental models in distributed systems?
(b) Distinguish horizontal distribution and vertical distribution.
- 3 (a) Elaborate on distributed communication entities. How they communicate?
(b) Explain the features of java RMI.
- 4 (a) What is an execution environment for a process?
(b) How a process in distributed system is different from a process in traditional system?
- 5 Explain detail about Andrew file system.
- 6 (a) Suggest and explain algorithm for mutual exclusion in distributed systems that considers processes to crash.
(b) Compare different methods of concurrency control in distributed systems.
- 7 (a) What are the different issues with distributed transactions?
(b) Why is it always not possible to provide 100% fault tolerant services in distributed systems?
- 8 Explain in detail about chorus.
