Code: CS7T4C

IV B.Tech - I Semester – Regular / Supplementary Examinations November 2016

DISTRIBUTED SYSTEMS (COMPUTER SCIENCE AND ENGINEERING)

Duration: 3 hours Max. Marks: 70
Answer any FIVE questions. All questions carry equal marks

- 1. a) Scalability can be achieved applying different techniques.What are these techniques?7 M
 - b) Explain about self management in distributed systems. 7 M
- 2. a) Describe a simple scheme in which there are as many light weight processes as there are runnable threads.7 M
 - b) Explain migration in heterogeneous systems. 7 M
- 3. a) Describe how a connectionless communication between a client and a server proceed when using a socket. 7 M
 - b) Explain why transient synchronous communication has inherent scalability problems and how these could be solved?

 7 M

4.	a) How is a mounting point looked up in a most UNI Systems?	7 M
	b) Summarize clock synchronization algorithms in dispersions.	listributed 7 M
5.	a) Describe a simple implementation of read-your –v consistency for displaying web pages that have just updated.	
	b) Explain the management of shared objects in Orca	a. 7 M
6.	a) In the two-phase commit protocol, why can block be completely eliminated, even when the participate a new coordinator?	O
	b) How the write-ahead log in distributed transaction used to recover from failures?	can be 7 M
7.	a) What is wrong in implementing a nonce as a times	stamp?
	b) Write the advantages and disadvantages of using centralized server for key management .	7 M
8.	a) List and explain the services of CORBA.	7 M
	b) Write short notes on distributed objects. Page 2 of 2	7 M