Code: CS7T4C

IV B.Tech - I Semester – Regular Examinations – November 2015

DISTRIBUTED SYSTEMS (COMPUTER SCIENCE AND ENGINEERING)

Duration: 3 hours Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

- 1. a) What is a distributed system and describe the goals of a Distributed System.

 7 M
 - b) Briefly describe the Architectural Styles of DS. 7 M
- 2. a) Describe how Threads are used in distributed systems? 7 M
 - b) Describe various issues and choices available in doing code migration in heterogeneous systems.

 7 M
- 3. a) Describe how parameters can be *passed by value*, and *by reference* in a remote procedure call (RPC). 7 M
 - b) Describe how the Quality of Service can be supported when using *stream* oriented communication. 7 M
- 4. a) Describe how the naming is done in DS with an example.

7 M

	b) Explain any two election Algorithms.	7	M
5.	a) Briefly describe consistency models.	7	M
	b) Write a short note on Content Replication.	7	M
6.	a) Describe various design issues in implementing <i>procest resilience</i> .		M
	b) Discuss various failures that can take place when make RPC calls and suggest how these failures can be handled	ed -	
7.	a) Describe various <i>security threats</i> and the <i>mechanisms</i> address those threats.		M
	b) Describe various techniques used for checking the <i>message integrity</i> and <i>confidentiality</i> .	7	M
8.	a) Explain the Architecture of Distributed Object Based Architecture.	7	M
	b) Explain what can go wrong when performing Replicat Invocations. Suggest a way to solve the problem.	_	i M