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Code No: 824AF

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, January - 2018 DISTRIBUTED SYSTEMS

Time: 3hrs Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART - A	5 × 5 Marks = 25
1.a) b) c) d) e)	Explain about interprocess communication. What is thread? Differentiate thread and process. Write down the features of squirrel system. What are the drawbacks of locking? Explain. Discuss about CORBA services.	[5] [5] [5] [5] [5]
PART - B 5 × 10 Marks = 50		
2.a) b)	What is firewall? Explain.  Discuss about RPC in distributed environment.  OR	[5+5]
3.	Explain various architectures of distributed system.	[10]
4.a) b)	Write a short notes on operating system features in distributed system Explain about X.500 directory service.	ns. [5+5]
5.	Explain about X.500 directory service.  OR  Explain the following. a) Virtual file system b) Client caching.	[5+5]
6.a) b)	Write a short notes on distributed debugging.  Discuss about peer to peer middleware.  OR	[5+5]
7.a) b)	Discuss about napster system. What are the tasks of routing overlays?	[5+5]
8.a) b)	Explain about distributed deadlocks.  Discuss about system model and group communication.  OR	[5+5]
9.a) b)	Explain about replication in distributed systems.  Write a short notes on fault tolerant services in distributed systems.	[5+5]
10.a)	Write a short notes on digital signatures.	

b) Explain about TLS.

Discuss about distributed shared memory.
 Explain in detail about CORBA RMI.

OR

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