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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) - EXAMINATION - SUMMER 2019

Subject Code:2160710 Dat	ate:21/05/2019
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Subject Name:Distributed operating system

Time:10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Define distributed operating system. Differentiate with normal OS.	03
	(b) (c)	Explain blocking and non-blocking primitives. What is transparency? List its types for distributed systems.	04 07
Q.2	(a)	What is Marshaling and Un-marshaling of parameters?	03
	(b)	List the goals for security in DOS.	04
	(c)	Differentiate tightly coupled and loosely coupled microprocessor system.	07
		OR	
	(c)	Explain symmetric and asymmetric cryptosystems.	07
Q.3	(a)	Explain Token Ring Algorithm for Mutual Exclusion.	03
	(b)	Why we need load balancing? Discuss any two issues related to it.	04
	(c)	Explain shared memory architecture. Discuss strict sequential model for it.	07
		OR	
Q.3	(a)	What is the difference between replication and file caching?	03
	(b)	Draw architecture of SUN Network File System.	04
	(c)	What is Real Time Distributed System? Explain the types of Real Time Distributed	07
		Operating System.	
0.4	(-)	List various attacks on a manutan avetacks	02
Q.4	(a)	List various attacks on computer systems.	03
	(b)	Explain the replication for web hosting system	04
	(c)	List deadlock prevention method in DOS. Explain any one.	07
0.4	(.)	OR	0.2
Q.4	(a)	List various methods used in catch management algorithms.	03
	(b)	Explain Feistel Cipher techniques in detail.	04
	(c)	Explain Bully algorithm with example.	07
Q.5	(a)	Explain asynchronous point to point message passing with example	03
	(b)	Explain NORMA and NUMA systems.	04
	(c)	What is Fault Tolerance? How can we achieve fault tolerant system?	07
_		OR	
Q.5	(a)	Explain worm and logic bomb with their consequences.	03
	(b)	Explain types of file sharing primitives.	04
	(c)	What is RMI? Explain components of RMI in JAVA	07
