Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION - SUMMER • 2015

Subject Name: Distributed Systems Time: 10.30AM-01.00PM		Date: 15/05/2015	
		Total Marks: 70	
Inst	ruct	ions:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is a Distributed System? State any Three advanta and disadvantages of distributes systems with respec centralize systems.	•
	(b)	•	DFS 07
Q.2	(a)	How does VMTP protocol handle lost messages, for control, group communication and maintain transparence	
	(b)		
		OR	
	(b)	Explain Static and Dynamic RPCs	07
Q.3	(a)	A distributed system has for nodes, N1, N2, N3 and each having its own clock. Their clocks tick 500,550,580, and 610 times per millisecond, respective This distributed system uses an external consynchronization mechanism in which all four nodes recent the real time every 60 seconds from an external time sort to read just their clock. Calculate the maximum clock so which can occur in the system.	at vely. lock sives urce
	(b)	Discuss various dead lock detection algorithms distributes systems OR	in 07
Q.3	(a)	Why mutual exclusion is more complex in distribution systems? Categorize and compare mutual exclusional algorithms	
	(b)	Discuss and compare various election algorithms	07
Q.4	(a)	What is process migration? Explain address transmechanism with freezing technique	port 07
	(b)	Explain the issues in designing load sharing algorithms OR	07
Q.4	(a)	Explain the technique to avoid the faults in distribusystems	
Q.4	(b)	Write the advantages of distributed shared memory. De HDSM and explain Ring based multi processor	efine 07
Q.5	(a)	Explain all strong Consistency Models	07

(b) What is Thrashing? Explain all algorithms use for data **07** location and DSM consistency management

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- Q.5 (a) Explain distributed approach to generate system oriented 07 names
 - (b) Explain the case study of DNS 07
