## Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_ C.U.SHAH UNIVERSITY **Summer Examination-2017**

Subject Name : Distributed Systems

	Subject	Code:4TE08DSY1	Branch: B.Tech (CE)	
	Semester	r:8 Date: 12/04/201	17 Time : 02:30 To 05:30 Ma	orks : 70
	Instruction (1) (1) (2) (1) (3) (1) (4) (4)	ons: Use of Programmable calculate Instructions written on main ar Draw neat diagrams and figure Assume suitable data if needed	or & any other electronic instrument is prohibit nswer book are strictly to be obeyed. es (if necessary) at right places. d.	ed.
Q-1	a) b) c) d) e) f) g) h) i) j) k) l) m) n)	Define Following Terms. Distributed Operating Syster Cache Memory Disk-full Workstation Replication Transparency IPC Orphan Call Thrashing Kernel Network Operating System ( ARP Protocol Transient Object Mutable File System Thread	m (DOS) (NOS)	(14)
Atte	mpt any f	four questions from Q-2 to Q	2-8	
Q-2	a) b)	Attempt all questions Describe Processor-pool & V Explain different Addressing	Workstation Server Models of Distributed Syste g Techniques of Client-Server Model.	(14) em.
Q-3	a) b)	Attempt all questions List all transparency and exp Draw and Explain in Details	plain different types of transparency. microkernel and monolithic kernel approach.	(14)
Q-4	a)	Attempt all questions What is process migration? V migration.	What are the main steps involved in process	(14)
	b)	What is ostrich algorithm? E	Explain Bully Election algorithm in detail.	
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Q-5	Attempt all questions		(14)
	a)	Briefly define Distributed System. What are the advantages of Distributed	
		System?	
	b)	Explain Units of Data Unit Transfer in Distributed File System.	
Q-6		Attempt all questions	(14)
	a)	Briefly explain Load-Balancing approaches.	
	b)	Define RMI. Explain design issues in RMI.	
Q-7		Attempt all questions	(14)
-	a)	Explain in detail Distributed Shared Memory Architecture.	
	b)	Write the features of a Global Scheduling Algorithm. Also Describe Centralized	
	,	Heuristic Algorithm.	
Q-8		Attempt all questions	(14)
	a)	Briefly explain VMTP and FLIP protocol.	
	b)	What are the desirable features of a Good Naming System? Explain basic	
		approaches to generate System-Oriented Names?	

