Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- II(New course) • EXAMINATION (Remedial) - WINTER- 2015

Subject Code: 2720509		Code: 2720509 Date: 14/12/20	Date: 14/12/2015	
Sul	bject	Name: Computer Networks		
Tir	ne:2:	30 pm to 5:00 pm Total Marks: 7	otal Marks: 70	
Inst	ruction			
	1.	Attempt all questions.		
	2.	Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
Q.1	(a)	Compare OSI model with TCP/IP model.	07	
	(b)	Enlist applications of computer networks.(at least seven)	07	
Q.2	(a)	Explain Various Network Topologies.	07	
	(b)	Enlist advantages of optical fiber communication.	07	
		OR		
	(b)	Explain various frame type in HDLC.	07	
Q.3	(a)	Compare pure ALOHA with slotted ALOHA.	07	
	(b)	Enlist multiple access methods and explain one of them.	07	
		OR		
Q.3	(a)	What is CSMA? Explain Different types of CSMA protocols.	07	
	(b)	Enlist IEEE LAN Standards.	07	
Q.4	(a)	Explain Frame structure of standard Ethernet. What is a broadcast address of Ethernet?	07	
	(b)	Enlist connecting devices used in networking. Also state that which device is operated in which layer.	07	
		OR		
Q.4	(a)	Explain Token bucket and leaky bucket algorithms with examples.	07	
	(b)	Explain Classful IP Addressing.	07	
Q.5	(a)	State difference between IPV4 and IPV6.	07	
	(b)	Write short note on: OSPF	07	
~ -		OR	0.5	
Q.5	(a)	State difference between TCP and UDP.	07	
	(b)	Explain the e-mail architecture and services.	07	
