Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) EXAMINATION – WINTER 2018 Subject Code:150702 Date: 27/1					
Ti	Subject Name: Computer Network Time: 10:30 AM TO 01:00 PM Instructions: 1. Attempt all questions. Total Marks: 70			0	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.			
Q.1	(a)	Give basic functionalities of TCP/IP and OSI reference mode them	els. Differentiate	07	
	(b)	What is network topology? Give its types and explain them.		07	
Q.2	(a)	What do you understand by Guided and Unguided medi examples.	a? Explain with	07	
	(b)	Explain TCP for network layer of OSI		07	
	(b)	OR Explain UDP for network layer of OSI		07	
Q.3	(a)	How sessions are created and terminated? Explain with respect functionality.	to Transport layer	07	
	(b)	What is Ad-hoc network? List MANET protocols and explain a OR	any one.	07	
Q.3	(a) (b)	What is Hamming Code? Explain how it is useful in error correction. Explain Leaky bucket algorithm.			
Q.4	(a) (b)	What is ALOHA protocol? Differentiate ALOHA and slotted ALOHA. Explain modulation of binary signals for Phase, Frequency and Amplitude. OR		07 07	
Q.4	(a) (b)	When tunneling is used? How it is useful in communication? What is congestion? Explain its control in virtual circuit and datagram subnets.		07 07	
Q.5	(a) (b)	What is CSMA? Explain persistent and non-persistent CSMA. What is the use of DNS? How it is useful in internet browsing? OR			
Q.5	(a) (b)	What is CDMA? Explain with timing diagram and example. What is an E-mail server? Explain its functionalities.		07 07	
