Q.5

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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) EXAMINATION – WINTER 2018				
Su	bject	Code:150702 Date: 27/11/2018	8	
Su	bject	Name: Computer Network		
Ti	me: 1	0:30 AM TO 01:00 PM Total Marks: 7	Total Marks: 70	
Ins	tructio			
	1. 2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a)	Give basic functionalities of TCP/IP and OSI reference models. Differentiate them	07	
	(b)	What is network topology? Give its types and explain them.	07	
Q.2	(a)	What do you understand by Guided and Unguided media? Explain with examples.	07	
	(b)	Explain TCP for network layer of OSI	07	
	(1-)	OR	0.5	
	(b)	Explain UDP for network layer of OSI	07	
Q.3	(a)	How sessions are created and terminated? Explain with respect to Transport layer functionality.	07	
	(b)	What is Ad-hoc network? List MANET protocols and explain any one. OR	07	
Q.3	(a) (b)	What is Hamming Code? Explain how it is useful in error correction. Explain Leaky bucket algorithm.	07 07	
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?	07 07	

(a) What is CDMA? Explain with timing diagram and example.

(b) What is an E-mail server? Explain its functionalities.

OR

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