Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (Old) EXAMINATION - WINTER 2019

Su	bject	t Code: 150702 Date: 25/11/20	019	
Ti	me: 1 tructio	ons:	Total Marks: 70	
	2.	Attempt all questions.Make suitable assumptions wherever necessary.Figures to the right indicate full marks.		
Q.1	(a)	Draw diagram of OSI reference model? What are the benefits of layering approach in OSI model?	07	
	(b)	Explain: LAN, WAN and internet	07	
Q.2	(a)	Explain the role of fiber optics in computer networks. How a fiber optic network is formed?	07	
	(b)	List demerits of unguided transmission media OR	07	
	(b)	List difference between Transport layer and Network layer	07	
Q.3	(a)	What do you mean by framing? List various framing techniques and explain any two of them.	07	
	(b)	What is ALOHA? Explain variants of ALOHA protocol. OR	07	
Q.3	(a) (b)	Explain Sliding Window Protocol. What is error control? Explain CRC with example	07 07	
Q.4	(a)	Explain IPv4 datagram format and importance of each filed.	07	
	(b)	Explain Distance Vector Routing with example. OR	07	
Q.4	(a)	Discuss the working principle of TCP	07	
	(b)	Explain various versions of CSMA protocols.	07	
Q.5	(a)	Write a note on HTTP.	07	
	(b)	What is the need of Domain name service? Explain DNS architecture.	07	
		OR		
Q.5	(a)	Explain: ATM, DNS and its use.	07	
	(b)	Explain in detail Virtual LANs.	07	
