Seat No.:	Enrolment No.
Seat No	Elifolilietit No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- V(OLD)	EXAMINATION – SUMMER 2019
Subject Code: 150702	Date: 06/06/2019

Subject Code. 120/02	Dute: 007
Subject Name: Computer Network	

Time: 02:30 PM TO 05:00 PM	Total Marks: 70
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Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Draw the OSI reference model. Explain the functionality of each layer in brief. What is topology? List out different types of topology and explain each in detail	07 07
Q.2	(a) (b)	Write a note on guided and un-guided transmission medium Explain ALOHA system. How slotted ALOHA works? Differentiate it with pure ALOHA.	07 07
		OR	
	(b)	Draw and explain Ethernet 802.3 Frame structure.	07
Q.3	(a)	What is the difference between error detection and correction? Explain any one error correction technique with suitable example	07
	(b)	Describe the working of sliding window protocol. Also explain the piggybacking phenomenon OR	07
Q.3	(a)	What is Routing? Explain shortest path routing with example.	07
	(b)	Explain IPv4 datagram format and importance of each filed	07
Q.4	(a)	Explain ICMP & IGMP in detail	07
ζ	(b)	Explain various versions of CSMA protocols.	07
Q.4	(a)	What is count-to-latinity problem? Explain it with example.	07
Ų. 4	(a) (b)	What is DNS? How resource records are maintained in DNS?	07
Q.5	(a)	Write a note on HTTP.	07
•	(b)	Write a short note on Mobile IP	07
		OR	
Q.5	(a)	Differentiate Datagram and Virtual circuit	07
	(b)	Draw and explain TCP packet header.	07
