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GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–V (Old) EXAMINATION – WINTER 2019

Subject Code: 150702   **Date: 25/11/2019**

Subject Name: Computer Network

Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**

Instructions:
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. 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	**07**
		OR	
	(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.	**07**
		OR	
Q.3	**(a)**	Explain Sliding Window Protocol.	**07**
	(b)	What is error control? Explain CRC with example	**07**
Q.4	**(a)**	Explain IPv4 datagram format and importance of each filed.	**07**
	(b)	Explain Distance Vector Routing with example.	**07**
		OR	
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**

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