GUJARAT TECHNOLOGICAL UNIVERSITY
ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2720509   **Date: 02/06/2016**

Subject Name: Computer Networks

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)**	Distinguish difference between OSI and TCP/IP Model	**07**
	(b)	Enlist Various types of Hardware used in computer networks	**07**
Q.2	**(a)**	Enlist type of media used in various network topologies.	**07**
	(b)	Explain Principle of Optical Fiber Communication.	**07**
		OR	
	(b)	Enlist advantages of optical fiber communication.	**07**
Q.3	**(a)**	Enlist Sliding Window protocols and Explain one of them.	**07**
	(b)	Why framing of bit stream is necessary? Explain Different framing techniques with examples.	**07**
		OR	
Q.3	**(a)**	Explain HDLC frame format.	**07**
	(b)	Explain point to point protocol (PPP).	**07**
Q.4	**(a)**	Enlist Random access protocols and Explain one of them.	**07**
	(b)	Compare RIP with OSPF.	**07**
		OR	
Q.4	**(a)**	Enlist various IEEE 802 standards.	**07**
	(b)	Explain Leaky bucket and token bucket algorithms.	**07**
Q.5	**(a)**	Compare TCP with UDP.	**07**
	(b)	Write Short note on: Domain Name System (DNS).	**07**
		OR	
Q.5	**(a)**	Compare HTTP with SMTP.	**07**
	(b)	Write Short note on: World Wide Web (WWW).	**07**

****