Seat No.:	Enrolment No.

Subject Code: 150702

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER • 2015

Date: 05-05-2015

Subject Name: Computer Network Time: 02.30 pm - 05.00 pm Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			
Q.1	(a)	Explain following terms with respect to Computer Network (1) Broadcasting (2) Bluetooth (3) Routing (4) Socket (5) IP Address (6) VLAN	06
	(b)	Draw the OSI reference model. Explain the functionality of each layer in brief.	08
Q.2	(a)		07
	(b)	network is formed? Explain ALOHA system. How slotted ALOHA works? Differentiate it with pure ALOHA.	07
	(b)	OR What is a Frame? Explain the significance of stuffing. Explain bit stuffing with example.	07
Q.3	(a)	Describe the working of sliding window protocol. Also explain the piggybacking phenomenon.	07
	(b)		07
Q.3	(a)	What is MANET? Explain route discovery in AODV protocol with example.	07
	(b)	Explain Distance Vector routing with example.	07
Q.4	(a) (b)	What is RPC? Draw and explain steps for RPC. Explain the concept and need of tunneling with example. OR	07 07
Q.4	(a) (b)		07 07
Q.5	(a) (b)	Write a note on HTTP. Explain connection oriented and connectionless services. Also differentiate both.	07 07
Q.5	(a)	OR List and explain major functionalities provided by E-mail service.	07
-	(b)	What is CSMA? Explain persistent and nonpersistent CSMA.	07

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