Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA Integrated – SEMESTER – V • EXAMINATION – WINTER 2016

Subject Code: 4450603			Date:26/10/2016	
Ti	me: (truction 1.	Attempt all questions.	70	
Q.1	(a)	What do you mean by Computer Network? What do you mean by Shared Resources? What are the needs of Shared Resources?	07	
	(b)	Explain OSI Model in detail.	07	
Q.2	(a)	List and explain the duties of Physical Layer and Data Link Layer of OSI Model.	07	
	(b)	Explain: (I) Difference between Infrared and Millimeter Waves (II) Difference between Wired and Wireless Connection OR	07	
	(b)	Explain Difference between Connection Oriented Services and Connection less Services	07	
Q.3	(a)	Explain: 802.11 and 802.16 in detail.	07	
	(b)	Explain: PCF Mode and Fragmentation in DCF Mode. OR	07	
Q.3	(a) (b)	Explain: Difference between Wired MAC and Wireless MAC. Explain: Total Internal Reflection Principle with proper Figures.	07 07	
Q.4	(a)	Write a note on Hidden Station and Exposed Station Problem.	07	
	(b)	Explain Distance Vector Routing Algorithm. OR	07	
Q.4	(a)	What are the duties of Transport Layer: Explain in Detail.	07	
	(b)	Explain following terms: (I) Delay Duplicates (4) (II) Retransmission. (3)	07	
Q.5	(a)	Write a note on Domain Name Space.	07	
	(b)	Explain: Resource Record.	07	
Q.5	(a)	OR Explain: POP3 and IMAP	07	
۷.۰	(b)	Explain: Bluetooth Architecture and its applications	07	
