Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - IV-SEMESTER- • EXAMINATION - WINTER - 2018

Subject Code:3640002 Subject Name: Basic Computer Science 3 – Computer Networking Time:10.30 am - 01.00 pm Instructions: 1. Attempt all questions.				
Q.1	(a) (b)	Define Computer Network? What are different types of networks? List different type of framing techniques? What is Byte stuffing? With suitable example discuss use of flag byte?	07 07	
Q.2	(a)	What is OSI Model? Explain the functions and protocols and services of each layer?	07	
	(b)	What is electromagnetic spectrum? What are radio waves & Micro waves? OR	07	
	(b)	What is Modulation? List modulation techniques and explain any one in detail.	07	
Q.3	(a) (b)	What are Multimode Optic Fibers? Compare UTP, Coaxial cable & Fiber Optic. Write a note on Aloha & Slotted Aloha.	07 07	
Q.3	(a) (b)	OR Write a short note on Hidden station and Exposed station problem Differentiate between 1) Connection less vs. Connection oriented 2) LEOs vs. MEOs	07 07	
Q.4	(a) (b)	Discuss CSMA/CD in details What are duties of Network Layer? OR	07 07	
Q.4	(a) (b)	Explain IEEE 802.3 and DIX frame structure in detail Explain Distance Vector Routing Algorithm	07 07	
Q.5	(a) (b)	What is Three way Handshake? Write the advantages of hierarchy of domain name space. OR	07 07	
Q.5	(a) (b)	Write a note on HTTP? What is Bluetooth? Explain its architecture.	07 07	
