GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII (OLD) EXAMINATION – SUMMER 2019Subject Code: 181101Date: 13/05/2019Subject Name:Data Communication And Networking Time: 10:30 AM TO 01:00 PMTotal Marks: 70Instructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Compare and contrast OSI reference model and TCP/IP reference model. Differentiate between unguided and guided transmission media and explain guided transmission media in detail.	07 07
Q.2	(a)	Differentiate between Hub, Switches and Routers. Also define active hub and passive hub.	07
	(b)	Write a short note on PSTN.	07
	a >	OR	
	(b)	Write a short note on Bluetooth.	07
Q.3	(a) (b)	Explain the channel allocation problem and its solution in detail. Enlist the multiple access protocol used in wireless network. Explain any two of them in detail.	07 07
		OR OR	
Q.3	(a)	Explain Link state routing algorithm in detail.	07
Q.0	(a) (b)	Explain Vertical Redundancy Check, Longitudinal Redundancy Check and Cyclic Redundancy Check with example.	07
Q.4	(a)	Give the cause of congestion in the network. Explain leaky bucket algorithm and token bucket algorithm.	07
	(b)	Explain SMTP and HATP protocols in detail. OR	07
Q.4	(a) (b)	Write a short note on UDP. Differentiate between IPv4 and IPv6.	07 07
Q.5	(a)	With the help of a neat diagram explain how ARP and RARP work.	07
Q.J	(a) (b)	Write a short note on Digital Signature.	07
	(0)	OR	07
Q.5	(a)	Discuss various social issues related to security over Internet.	07
V .3	(a) (b)	Write a short note on Domain Name System.	07 07

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