Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV (OLD) - EXAMINATION - SUMMER 2017

Subject Code: 141601			Date: 01/06/2017	
Tir	ne: 1 ruction 1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.	70	
	3.	Figures to the right indicate full marks.		
Q.1	(a)	Define Terms with Example: Data Communication, Internet, Intranet, wireless Network.	07	
	(b)	Define Network devices. Give brief details of any FIVE Devices.	07	
Q.2	(a) (b)	Explain Protocols. Give function of HTTP, HTTPS, TCP/IP, UDP Protocol. Differentiate Periodic and Aperiodic Signals with sketch. OR	07 07	
	(b)	Short note: 1. Internet 2. Intranet 3. WWW 4. DNS	07	
Q.3	(a)	Working concept of Modems, give the types of Modem. Give the difference between NIC and Modem.	07	
	(b)	In terms of Data Transmission. What is 1. Packet Loss 2. Delay 3. through-put 4. bandwidth	07	
		OR		
Q.3	(a) (b)	In terms of MULTIPLEXING. What is TDM and FDM In terms of Data Transmission. What is 1.Broadcast 2.Multicast 3.unicast 4.Peer-to-peer	07 07	
Q.4	(a)	Conceptually differentiate between VoIP and the PSTN.	07	
•	(b)	Explain Distance Vector Routing. Also give Common Characteristics of routing protocols.	07	
		OR		
Q.4	(a) (b)	Function of Routers, and explain of routing table. Give detailing of given concept 1. Error Detection 2. Error Correction 3. Checksum	07 07	
Q.5	(a) (b)	Explain in details: 1. Frame 2. data 3. Segment 4. Packet Comparing Gigabit Ethernet cables and Optical Fiber Network Cables. OR	07 07	
Q.5	(a) (b)	What is the difference between application layer and presentation layer? Advantages and disadvantages of link-state routing.	07 07	
