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CULARAT TECHNOLOCICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–IV (OLD) EXAMINATION – WINTER 2018			
Subject Code:141601 Date: 28/11/			8
Subject Name: Data Communication And Networking			
	Time: 02:30 PM TO 05:00 PMTotal Marks: 70		
Instructions:			
 Attempt all questions. Make suitable assumptions wherever necessary. 			
	3.		
Q.1	(a) (b)	Explain the OSI model for networking in brief. Define topology. Explain any two topology with it advantage and disadvantage.	07 07
Q.2	(a)	Explain Guided Transmission Media Such As Twisted Pair, Coaxial Cable, & Fiber Optics.	07
	(b)	Difference between Packet Switching, Circuit Switching & Message Switching. OR	07
	(b)	List out the application of multiplexing. Explain FDM in detail.	07
Q.3	(a)	What is error detection? List various methods of error detection and explain any two of them in brief.	07
	(b)	Difference between IPv4 Address and IPv6 Address. OR	07
Q.3	(a)	Explain Cyclic Redundancy Check with example.	07
	(b)	Explain GO Back N & Selective Repeat Protocol.	07
Q.4	(a)	Explain the frame relay in details.	07
	(b)	Explain Bridge, Hub, and Router & Gateway.	07
Q.4	(a)	Write a short note on Leaky Bucket Algorithm.	07
-	(b)	Explain Network Layer Design Issues	07
Q.5	(a)	Explain three way handshake process with suitable diagram.	07
	(b)	Define routing in communication. Explain distance vector routing algorithm with example.	07
Q.5	(a)	OR Explain the working of electronic mail protocols SMTP, IMAP and POP3 in brief with suitable diagram.	07
	(b)	Explain types of transmission impairment in detail. Also discuss Shannon capacity.	07
