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## CUNOLOCICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- VII (New) EXAMINATION - WINTER 2019			
Subject Name: Data Communication and Networking			
Time: 10:30 AM TO 01:00 PM Total			Marks: 70
Instructi	ons:		
		tempt all questions.	
		ake suitable assumptions wherever necessary.	
3	. Fig	gures to the right indicate full marks.	
			MARKS
Q.1	(a)	Explain the limitations of OSI model.	03
	(b)	Write note on network topology.	04
	(c)	Explain ISO-OSI model in detail.	07
Q.2	(a)	Explain character count and bit stuffing mechanism of data link	03
	<b>a</b> >	layer.	
	(b)	Explain the concept of piggybacking.	04
	(c)	Write note on sliding window protocol. OR	07
	(c)	Write note on HDLC protocol of data link layer.	07
Q.3	(a)		03
Q.D	(b)	Explain the following terms: 1.) Router, 2.) Switch, 3.)	04
	()	Supernetting and 4.) Subnetting.	
	(c)	Write note on distance vector routing.	07
	(.)	OR	
Q.3	(a)	Explain the concept of subnet mask.	03
	(b)		04
	(c)	Write note on link state routing.	07
Q.4	(a)	Enlist the protocols used at network layer.	03
	(b)	Write note on firewall.	04
	(c)	Write note on leaky bucket algorithm. OR	07
0.4	(a)		03
Q.4	(a) (b)	Differentiate between physical address and logical address. Explain hierarchical routing in network layer.	03
	(c)	Draw and explain IPv4 packet.	07
Q.5	(a)	Explain Congestion.	03
0.5	(a) (b)		03
	(c)	Write note on UDP.	07
	(0)	OR	
Q.5	(a)	Explain DES algorithm.	03
	(b)	Write note on Adhoc network.	04
	(c)	Explain RSA algorithm.	07

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