		(3 Hours)	[Total Marks: 80]
N.]	В.:	<ul><li>(1) Question No. 1 is compulsory.</li><li>(2) Solve any three questions from remaining five questions.</li><li>(3) Draw neat diagrams and assume suitable data wherever neces</li></ul>	ssary. Justify your assumptions
1.		Attempt any four:	20
	(a)	Explain the four levels of addresses used in computers.	
	(b)	Coaxial cable is much less susceptive to interference and cross ta Why?	alk than twisted pair.
	(c)	What is sliding window? Where is it applicable?	
	(d)	Explain leaky bucket to control congestion in network traffic.	
	(e)	Identify the class of each addresses.	
		i)14.23.120.8 ii)252.5.15.111 iii)200.58,20.165 iv)128.167.23.20	0 v) 205.16.37.32
2.	(a)	Draw the OSI layer architecture. Explain the function of each lay	ver and show the path of 10
	(1-)	actual and virtual communication between the layers.	L. M. 10 . 4 . 10
	(b)	What is a transparent bridge? How the process of learning in this Explain the Spanning tree algorithm to solve looping problem.	bridge takes place. 10
3.	(a)	Explain Persistence methods with neat diagram.	
	(b)	Explain CSMA/CD with a flow diagram.	
	(c)	What are the two common configurations used in HDLC? Draw	
	` ,	frame format with separate diagram for control field format for each different frame.	
<ul><li>4. (a) Compare Stop and Wait, Selective Repeat and Go-Back-N protocols for a n</li><li>(b) Compare Circuit Switching, Packet Switching and Message Switching</li></ul>		Compare Stop and Wait, Selective Repeat and Go-Back-N proto	cols for a noisy channel 10
		ching 10	
5.	(a)	List three transition strategies to move from IPV4 to IPV6. Explain the difference 10	
		between tunneling and dual stack during transition period.	
	(b)	What is Fragmentation in IPV4? Explain the fields related to fragmentation in head <b>06</b> format.	
	(c)	Find the first addresses, last addresses and number of address	ses of the following IP <b>04</b>
	20	addresses:- i) 205.16.37.39/28 ii) 123.56.77.29/27	
6. Write Short note on (any for		Write Short note on (any four)	20
8 P	S S S	i) DSL	
	100 P	ii) FDDI	
	366	iii) TCP header format	
	746	iv) Distance Vector Routing	
35.7		v) Congestion Control	
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