

DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY B.TECH. SEMESTER V [IT]

SUBJECT: (IT-505) COMPUTER & COMMUNICATION NETWORK

B Explain IEEE-802.5 LAN standard in detail.

Tim	Max. Marks : 36	
<u>INSTRUCTIONS</u> :		
1.	Figures to the right indicate maximum marks for that question.	
2. 3.	The symbols used carry their usual meanings. Assume suitable data, if required & mention them clearly.	
3. 4.	Draw neat sketches wherever necessary.	
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Q.1	Do as directed.	[12]
(a)		[2]
(b)		[2]
(c)		[2]
(\mathbf{d})		[2]
	is 255.255.254. What are the corresponding subnet address, subnet number and host	
	number, respectively?	
(e)	•	[2]
(f)	What is optimality principle?	[2]
Q.2	Attempt the following questions.	[12]
A	Which TCP timer is use for the following situation?	[6]
	(1)To handle the zero window-size advertisement.	
	(2)To keeps track of the time between sending of a segment and the receipt of an	
	acknowledgement	
	(3)To prevents long idle connection between two TCPs.	
В	Differentiate: Virtual Circuit subnet and Datagram subnet.	[6]
Q.3		[12]
A		[6]
	are limited to 1000 bytes each, frames are numbered by frame number starting at 1, and	
	the window size is 5 frames. Frame 3 is lost.	
	(1) Which frames are retransmitted if Host A and Host B are using the Go-Back-N	
	protocol?	
	(2) Which frames are retransmitted if Host A and Host B are using the selective repeat	
	protocol?	

[6]