Dura	tion	: 3hrs [Max Marks:80]	
N.B.	(2) Question No 1 is Compulsory.) Attempt any three questions out of the remaining five.) All questions carry equal marks.) Assume suitable data, if required and state it clearly.	
Q1.	a b	Attempt any FOUR Explain physical, logical and port addressing with examples Compare hubs and bridges	1
	c	Explain different types of frames and their uses in HDLC protocol	,
	d e	State the rules for transforming IPv6 packet header to IPv4 packet header Discuss the services provided by TCP protocol	
Q2.	a b	Explain Advanced DSL in detail Explain virtual circuit approach and datagram approach in packet switching. [10]	フー
Q3.	a	Explain classless addressing. What are the restrictions on the address blocks [05] in classless addressing? An address in CIDR notation is 205.16.37.39/28. Find the mask in binary	Á
7	b	notation, the net id, the first address, last address and the number of hosts. Discuss the working of CSMA/CD technique [10]	_
Q4.	a	Draw and explain UDP header. Compare TCP and UDP. [05]]
	b	Find and draw the shortest route from source node 's' to all other nodes using Dijkstra's and Bellman-Ford algorithm	J
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Q5,	b b	Explain the layered architecture of TCP protocol Discuss sliding window flow control with examples [10]	_
4	c	Explain TCP three-way handshake with proper diagrams [05]	
Q6.	a	Explain HTTP request/response transaction. Explain each field in the HTTP [10] request and the response]
120	b	Discuss the closed-loop congestion control mechanisms [10]]
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