

Duration: 3 Hrs

Total Marks: 80

		estion No. 1 is Compulsory.	
		empt any three questions, from remaining five questions.	25.60
	3. Figu	ure to the right indicates full marks	
Q.1.	A)	Explain LAN, MAN and WAN.	5
7	B)	Compare various network topologies.	5 5
	C)	Explain the purpose of Flow control and Error Control from DLL perspective.	5
	D)	Explain the purpose of fragmentation of Packet and how it is done.	5
Q.2.	A)	Explain OSI / ISO model with neat diagram and the functions of each layer.	10
	B)	Explain the functionality of Repeater, HUB, L2-Switch and Router.	10
Q.3.	A)	Explain the need for subnetting? A company is granted the site address 201.70.64.0 (class C). The company needs six subnets. Design the subnets.	10
	B)	What is difference between interior gateway and exterior gateway routing? Explain the count to infinity problem of DVR and various solutions for the same.	10
Q.4.	A)	What are Berkley socket primitives? Explain in brief.	10
4.7	B)	What is error detection and correction? Explain CRC with example.	10
Q.5.	A)	What is congestion control? Explain open loop and closed loop congestion control policies.	10
	B)	Explain in brief— a) Telnet b) TCP timers	10
Q.6,		Write Short Note on (Any four)	20
		(a) TCP segment header	
		(b) IPV4 vs IPV6	
		(c) Go back n ARQ	
	9.00	(d) Design issues for various layers	
	30	CAL DNS	

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