Max. Marks: 80 Time: 3 hours

N.B. (1) Question one is Compulsor	N.B.	(1)	Ouestion	one is	Comr	oulsor
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- (2) Attempt any 3 questions out of the remaining.
 (3) Assume suitable data if required.

Q. 1	a)	Explain why there is need for layered designing for networking and communication.	05
	b)	Explain the functionality of Sliding window protocol	05
	c)	Explain the different classes of IPV4 addressing technique	05
	d)	Write Short note on Parity check	05
Q 2	a)	Compare between layers of OSI model and TCP/IP model with a neat diagram	10
	b)	What are the different DLL design issues? Describe them in brief.	10
Q 3	a)	What is Channel allocation problem? Explain CSMA/CD protocol. A network with CSMA/CD has 100 Mbps bandwidth and 25.60 micro second maximum propagation delay. What is the minimum	10
		frame size?	
	b)	Explain Cisco Service Oriented Network Architecture in detail	10
Q 4	a)	What is ALOHA? Explain Pure ALOHA and Slotted ALOHA in detail	10
Bar	b)	Differentiate between Routed and Routing protocols and also depict the classification of routing algorithms.	10
Q 5	a)	What is SDN? Explain SDN Building Blocks with different Open flow messages.	10
	b)	Elaborate TCP flow control mechanism with example	10
Q 6	25	Write a short note on	
Q U	a)	TCP Timers	05
	b)	DNS	05
NO.	c)	Static routing and Dynamic routing	05
4	d)	Packet Switched vs Circuit Switched Network	05
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