Roll No.

322611(22)

B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(Branch: CSE Br.)

COMPUTER NETWORKS

Time Allowed: Three hours

Maximum Marks: 80 10

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) is compulsory attempt any two from part (b), (c) and (d). The figure in the right hand margin indicate marks.

Unit - I

- 1. (a) What is basic difference between N-ISDN and B-ISDN?
 - (b) Explain basic network topologies and give

2

		[2]				[3]	
		advantages of each. Differentiate between half			(b)	As IPv6 contain multiple header, how does it know	
		duplex and full duplex transmission mode.	7			where particular header ends and next item	
	(c)	What are the services of physical layer? Also				begins?	7
		explain handward protocol for computer network.	7		(c)	Explain distance vector routing with neat diagram.	
	(d)	What is switching? Explain circuit switching, packet			,	Write the difference between distance vector routing & link state routing.	7
		switching & message switching.	7			no rated from the home draw the	
2.	(a)	Write the number of bits used by MAC address			(d)	How crash recovery is possible? Explain it with an example.	7
		with example.	2			Unit - IV	
	(b)	What is AJM reference model? Explain all the		4.	(a)	What is remote file server?	2
		layers of ATM.	7		(b)	Which layer is responsible for end-point flow	
	(c)	What is ALOHA? Calculate the efficiency of pure ALOHA and slotted ALOHA along with graphs.	7			control? Explain the method adopted for controlli the flow in detail.	7
	(d)	Calculate the throughput for stop and wait flow control mechanism if the frame size is 4800 bits,			(c)	Explain the working principle of DES. What are the advantages & disadvantages of triple DES over DES.	
		bit rate is 9600 bps and distance between device is 2000 km, speed of propagation over the transmission is 200000 kms.	7		(d)	Explain why modern block ciphers are designed as substitution cipher instead of transposition	
		Unit - III · PERINGE				ciphers.	7
						WT ** W7	
3.	(a)	Which one of the seven layers is specially related to routing and what is its purpose?	2			Unit - V	
						and the second second	

322611(22)

PTO

1111

322611(22)

7

5.	(a) Explain attacks and counter attacks in network.	2
	(b) What is FDDI? What are differences between FDDI-I & FDDI-II?	7
	(c) What is SONET? What is the significance of sonnet? Explain the sonnet frame structure.	7
	(d) Write short technical notes on: (i) Congestion control	7
	(ii) Repeaters & Routers	
	(b) What layer is responsible for end-point flow course? Explantific method a 'qued'tor a mobiling that for your desired.	
	in frequencing working principle of DES. When me, the releasurages of disadvantanes of might DRS most life.	
	nomento na som je Bost molem jeto melijen. (b) nomenmen Ri Lennol jeligo noministan se	