Roll No.

322651(22)

B. E. (Sixth Semester) Examination, 2020

(New Scheme)

(CSE Branch)

COMPUTER NETWORKS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) from each questions is compulsory. Solve any two parts from (b), (c) and (d).

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- 1. (a) Define computer network.
 - (b) Design full ISO/OSI reference model. Explain the function of each layer.

	(c)	Compare LAN, MAN & WAN	7
	(d)	What is ISDN? Explain Broadband ISDN with the help of block diagram.	7
		Unit - II	
2.	(a)	Define Checksum.	2
	(b)	Explain stop & wait and sliding window protocol for flow control.	7
	(c)	Write various features of HDLC. Clearly explain various response modes & station types.	7
	(d)	Calculate the efficiency of pure Alohoa and slotted Aloha.	7
		Unit - III	
		Define virtual circuit.	2
	(b)	Compare IPv4 & IPv6 addressing scheme.	7
	(c)	Explain distance vector routing protocol along with example.	7
	(d)	Explain multi protocol label switching (MPLS) routing mechanism.	7

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Unit - IV

4.	(a)	Define multiplexing.	2		
	(b)	Write the differences between connection oriented & connectionless services. Explain TCP segment header format.	7		
	(c)	Discuss TCP connection management phases (Connection Setup, Data Transfer, Connection Tear Down) with example.	7		
	(d)	Explain transport layer congestion control policy.	7		
Unit - V					
5.	(a)	Define socket.	2		
	(b)	Write short notes on : (i) Domain Name Systems (ii) Electronic mail	7		
100	(c)	Describe multimedia networking protocols RTP & RTCP in detail.	7		
	(d)	Define firewall. Explain different types of firewall.	7		

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