Roll No.

328632(28) - 120 - 121 / 1 - 12

B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(ET & T, Mechatronics Engg.)

COMPUTER NETWORK

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Manks: 28

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

Unit-I

- 1. (a) What is Null Modem?

 - (b) What do you mean by topology of network?

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		[2]				[3]	
		Compare advantages and disadvantages of different			(b)	Compare ethernet, token bus and token ring.	7
		topologies.	7		(c)	Explain FDDI in detail.	7
	(c)	What is OSI reference model? Explain the function			. 45	7 1 1 1 1 TEED 000 01	~
		of each layer in short.	7		(d)	Explain in detail IEEE 802-3 by access method.	7
	(d)	Compare UTP and STP cable	7			Unit-IV	
		Unit-II		4.	(a)	What is header overhead in IP protocol?	2
2.	(a)	Define CRC.	2		(b)	Explain TCP operation. What is TCP header format.	7
	(b)	An 8-bit byte with binary value 10101111 is to be encoded using an even-parity hamming code. What			(c)	Explain different types of IP address format. For the address 132·7·21·84 find the type of network and network address.	7
		is binary value after encoding?	7			and network address.	,
		Explain the flow control mechanism in data link layer. What is the need of flow control.	7		(d)	Explain the function of network layer (including its services).	7
	2.48	The transfer of the transfer o				Unit-V	
		How many types of frames HDLC uses? Explain with their frame format.	7	5.	(a)	What types of transmission media are used in LANs.	2
		Unit-III			(b)	Explain high speed LANs.	7
3.	(a)	What is a rule added to convert CSMA to CSMA/			(c)	Explain 100 VG-Any LAN.	7
		CD.	2		(d)	Explain fast ethernet system and compare various forms of it.	7

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