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# B. E. (Seventh Semester) Examination, April-May 2020/NOV-DEC 2020

(New Scheme)

(ET & T Engg. Branch)

#### **COMPUTER NETWORKS**

Time Allowed: Three hours

and the wage Maximum Marks e 80 while he is

Minimum Pass Marks: 28

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

#### **Unit-I**

1. (a) What is meant by topology? Name the various topologies of the network.

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	(b) Explain OSI model its functions, protocols and services of each layer.	7
	(c) Explain the signal encoding technique for digital to digital conversion using polar method, also explain how NRZ-L differ from NRZ-I.	7
	(d) Explain the transmission of digital data.	7
	Unit-II	8
2.	(a) What is Bit Stuffing?	2
	(b) If the divisoris 1101 and the meassage bits are 100100. Obtain the CRC code.	7
	(c) Explain the flow control mechanisms applied in data	
	link layer.	7
	(d) Write short notes on :  (i) Data transparency `  (ii) HDLC	7
	Unit-III	
3.	(a) Explain fast Ethernet.	2
	(b) Discuss various IEEE standards. Explain working of	-if
	IEEE 802·3.	7

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	(c) Draw and explain frame format of FDDI protocol	7
	(d) Explain the CSMA/CA.	7
	Unit-IV	
4	4. (a) Explain the structure of IP address.	2
	(b) State difference between IPV4 and IPV6 protocols	. 7
	(c) Write short notes on ARP and ICMP.	7
	(d) Explain the relationship of repeater, bridges, routers and gateway to OSI reference model.	7
	Unit-V	
5	Unit-V 5. (a) Define the term HTTP	2
5		7
5	5. (a) Define the term HTTP.  (b) What is ATM reference model? Name the ATM	
5	<ul><li>(a) Define the term HTTP.</li><li>(b) What is ATM reference model? Name the ATM layers and their functions.</li><li>(c) List out differences between circuit and packet</li></ul>	