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Roll No.:

333452(33)

B. E. (Fourth Semester) Examination, April-May 2020

(New Scheme)

(IT Branch)

NETWORKS TO THE PROPERTY OF T

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks.

Attempt any two from (b), (c) and (d) which carry 7 marks each.

Unit-I

- 1. (a) What is PSTN?
 - (b) What is Multiplexing? Explain different types of multiplexing.

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	(c)	Explain major components of telephone system.	7
	(d)	Explain briefly B-ISDN. List the services that are provided by B-ISDN.	7
		Unit-II	
2.	(a)	What is MAN?	2
	(b)	Describe the three HDLC station types. What is the basic difference between bit-oriented and character oriented protocol?	7
	(c)	Explain the functions of each layer of the OSI model.	7
	20	What types of topologies are used in computer network? What are the advantages and disadvantages of each topology? Unit-III	7
3.	(a)	What is ALOHA?	2
	(b)	What are the advanages of using UDP over TCP? Explain TCP/IP services and its header format.	7
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	(c)	What are the different networking and internetworking devices? At which layer these devices
		are being operated and which protocol is being
		used at this layer.
	(d)	Compare standard Ethernet, fast Ethernet and gigabit Ethernet on the basis of access method,
		addressing, frame format and data rates.
		Unit-IV
4.	(a)	Unit-IV What is PNNI?
4.	(a) (b)	
4.		What is PNNI? List the frame types of X-25 and give their

Unit-V

5.	(a)	What is Cryptography?	2
	(b)	What are the two categories of encryption/decryption methods? Differentiate between these	
		categories.	7

(c) If $p = 7$, $q = 17$ then encrypt a plain text "hi	" by	
using RSA algorithm.		7
(d) Write short notes on digital signature and c	erti-	
fication authority.		7
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Whether Chyprography?	(4)	
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