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	l No. al No	. Total No. of Page o. of Questions : 08	s : 02
		M.Tech.(ECE) (2016 Batch) (Sem1) DATA COMMUNICATION NETWORK Subject Code: MTEC-102 Paper ID: [74147]	
Time: 3 Hrs. Max. Marks: 1			: 100
INST 1. 2.	Atte	CTION TO CANDIDATES: empt any FIVE questions out of EIGHT questions. ch question carries TWENTY marks.	
1.	a.	What do you mean by transmission Impairment? Discuss all the types of transimpairment in detail.	mission (10)
	b.	If the signal at the beginning of a cable with -0.3dB/km has a power of 0 Calculate the power of signal after 5 km.	.2 mW. (5)
	c.	For a typical telephone line with a signal-to-noise ratio of 30dB and a bandwidth of 3kHz, Determine the maximum data rate using Shannon's Theorem	
2.	a.	Differentiate between Asynchronous and Synchronous transmission.	(10)
	b.	What is DNS system? Why name servers are defined in DNS?	(10)
3.	a.	What do you mean by TDMA? Differentiate between Synchronous and St TDM.	atistical (10)
	b.	What do you mean by Hamming distance? A code scheme has a Hamming $d_{min} = 4$. What is the error detection and correction capability of this scheme?	distance (10)
4.		rite down the algorithm for Selective automatic repeat ARQ protocol. Also allyses of algorithm with suitable example.	give the (20)
5.	Dis	iscuss in detail :	(20)
	a.	CSMA/CD	
	b.	FDDI	
	c.	DQDB	
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- 6. a. What is Link state routing? How new routes are computed using link state routing?
 - b. Discuss the TCP transmission Policy using window management. How it removes congestion? (10)
- 7. Discuss all the layers of ATM network with their functions. Also write down the design goals for ATM networks. (20)
- 8. a. What do you mean by QoS? Also discuss the various flow characteristics in detail.

(10)

b. Discuss the working of intrusion detection system in detail. (10)

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