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	I No. of Questions : 08	Total No. of Pages: 02
	M.Tech.(ECE) (2016 Batch) (3 DATA COMMUNICATION NE Subject Code: MTEC-10 M.Code: 74147	TWORK
Tim	ie : 3 Hrs.	Max. Marks: 100
INS1 1. 2.	RUCTION TO CANDIDATES: Attempt any FIVE questions out of EIGHT question Each question carries TWENTY marks.	s.
QI.	(a) With a suitable diagram, explain OSI network architect(b) What is data communication? What are the possible with examples.	(10)
Q2.	(a) Describe the limitations of IpV4 protocol. Explain ho IpV6.	w the limitations are overcome in (10)
	(b) What is network security? Why it is required? Des 'authentication', 'non-repudiation', and 'integrity'.	cribe the terms 'confidentiality', (10)
Q3.	(a) What is Multiplexing? Explain the working of STDM	f and FDM with their limitations. (10)
	(b) What is a Protocol? Differentiate between character-or	riented and bit-oriented protocols. (10)
Q4.	(a) What type of errors can be detected by Parity Check Explain with a suitable example.	k Code? How is it implemented?
	(b) What is ATM Technology? Explain reference mode	l of ATM along with the various

- Q5. (a) How Connection is established and Terminated in TCP using three-way handshaking mechanism? Describe in detail. (10)
 - (b) How does LAN differs from MAN? Explain briefly about different physical topologies used in LAN. (10)

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Q6.	(a) E	xplain leaky bucket and token bucket algorithm.	(10)
	(b) D	ifferentiate between datagram and virtual circuit approaches for packet switching	g.(10)
Q7.	(a) D	iscuss briefly the following polar encoding schemes:	(10)
	a.	NRZ	
	b.	RZ	
	c.	Manchester	
	d.	Differential Manchester	
		hat is the significance of the twisting in twisted pair cable? What are the dif- tegories of a twisted pair cables and their features?	ferent
Q8.	(a) Fi	nd the class of each IP address with suitable explanation.	(10)
	a.	227.12.14.87	
	b.	193.14.56.22	
	c.	14.23.120.8	
	d.	252.5.15.111	
	e.	134.11.78.56	
	(b) W	rite short notes on the following:	
	a.	DQDB MA	(5)
	b.	Mobile IP33N operating system	(5)

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NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

