

Code No: A6505, A0603, A5510 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I-Semester Examinations, October/November-2011 DIGITAL DATA COMMUNICATIONS (Common to WIRELESS AND MOBILE COMMUNICATIONS, DIGITAL SYSTEMS AND COMPUTER ELECTRONICS, EMBEDDED SYSTEMS) Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

1.a) b)	Draw a scheme for generation of BFSK signal and explain its operation. Give the comparison for FSK and PSK system.	[12]
2.a)	What are the two basic kinds of data communications circuit configura Explain.	tions?
b)	Describe the basic functions of LCU in a data communications circuit.	[12]
3.a) b)	Describe the physical, electrical and functional characteristics of R interface. Explain the following:	S-232
	i) Modern synchronizationii) Modern equalizers.	[12]
4.a) b)	Describe the difference between asynchronous and synchronous protocols. Briefly describe the architecture of ISDN.	[12]
5.	Identify and explain the various sections of an Ethernet II frame layout.	[12]
6.a) b)	Describe Bell system T_1 carrier system. Describe the basic concepts of WDM.	[12]
7.a) b)	Describe addressing mechanism of IEEE 802.11. Discuss the specific functions of L2CAP (Logical link control and Adap protocol).	otation [12]
8.a) b)	Explain how streamy live audio/video differs from streaming stored audio/vi Distinguish between spectral compression and temporal compression.	
0)	Distinguish between spectral compression and temporal compression.	[12]

* * * * * *