R09

Code No: C6101, C3804, C0603, C7004, C6501

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I - Semester Examinations, March/April-2011

ADVANCED DATA COMMUNICATIONS

(COMMON TO COMMUNICATION SYSTEMS, DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS, DIGITAL SYSTEMS AND COMPUTER ELECTRONICS, ELECTRONICS AND COMMUNICATION, WIRELESS AND MOBILE COMMUNICATIONS)

Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

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1.	Explain the following terms: i) Information capacity iii) M-ary Coding	ii) Band iv) Band width efficiency.	[12]
2.	Explain and compare the performance	ee of 8-PSK and 8-QAM systems.	[12]
3. a) b)	What are the components of data communication system? Explain its function Compare LAN, MAN and WAN categories of Networks.		tion. [12]
4. a) b)	Explain CRC error detection process with a suitable example. Compare the performance of stop and wait and sliding window protocols.		[12]
5. a) b)	Explain the features of X-MODEM, Y-MODEM asynchronous protocols. Describe HDLC frame format.		[12]
6. a) b)	Explain the operation of space division switches. Explain the operation of Time Slot Interchange.		[12]
7. a)	What are the drawbacks of synchronous Time Division Multiplexing? How you overcome them?		v do
b)	What is Inverse Multiplexing? Expla	in.	[12]
8. a) b)	Explain the operation of CSMA/CA Write a brief note on CDMA.	with the help of a flow chart.	[12]
