Code No: 45100

R07

III B.Tech I Semester Regular Examinations, Nov/Dec 2009

Set No - 4

DATA COMMUNICATION SYSTEMS Common to Information Technology, Computer Science And Engineering Time: 3 hours Max Marks: 80 Answer any FIVE Questions All Questions carry equal marks ***** 1. (a) Explain the classifications of CDMA radiated power? (b) Describe GSM architecture? [8+8]2. (a) Describe the Clark orbit? (b) List and explain the three satellite elevation categories? [8+8]3. (a) What is Topology? Explain briefly about network Topologies. (b) Explain the probability of error and bit error rate? [16]4. Explain SDLC loop operation? [16]5. (a) What are the characteristics of asynchronous voice-band mdems. (b) Generate the hamming codeword for ASCII character "U" = 1010101. Assume even parity for the hamming code. [8+8]6. (a) List and describe the types of losses associated with metallic transmission lines. (b) What is meant by mode of operation and index profile. [8+8](a) For the following bit sequence, draw the timing diagram for UPRZ, UPNRZ, 7. BPRZ, BPNRZ, and BPRZ-AMI: 1 1 1 0 0 1 0 1 1 0 0. (b) Explain the relationship between dynamic range, resolution and the number of bits in a PCM code? [8+8]8. (a) What is meant by line conditioning? What are the types of line conditioning? (b) Explain the paging systems? [10+6]
