

Code No: 45100

R07

Set No - 1

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

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 operational features of CDMA?
(b) Explain the USDC digital video channel? [8+8]
2. (a) Define quantization and describe a folded binary code?
(b) Describe the North American Digital Hierarchy. [8+8]
3. What is sliding window protocol? Explain the sliding window flow control? [16]
4. (a) Describe dial pulsing?
(b) Describe attenuation distortion and envelope delay distortion? [8+8]
5. Give a brief description of amplitude-shift keying, frequency-shift keying, phase-shift keying and quadrature amplitude modulation. [16]
6. (a) What is CDMA? What are its advantages and disadvantages?
(b) What is skip distance? Explain its significance? [8+8]
7. (a) For a given length of coaxial cable with distributed capacitance $C = 48.3\text{pF/m}$ and distributed inductance $L = 241.56\text{ nH/m}$, determine the velocity factor and velocity of propagation.
(b) Explain snells law? [8+8]
8. (a) Explain vertical redundancy checking?
(b) Explain clock slippage and describe the effects of slipping over and slipping under? [8+8]
