

Code :07A40404

RA

III B.Tech II Semester(R07) Regular & Supplementary Examinations, April/May 2011
DATA COMMUNICATION SYSTEM
(Computer Science & Systems Engineering)

(For students of R05 regulation readmitted to III B.Tech II Semester R07)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Define data communication. Explain data communication standards in detail.
(b) What is digital modulation. Explain amplitude-shift keying, frequency shift keying.
2. (a) Explain the wave propagation on metallic transmission lines.
(b) Write a note on propagation of light through an optical fiber cable.
3. (a) Write a short note on pulse code modulation.
(b) What is multiplexing? Explain statistical time division multiplexing.
4. (a) Explain microwave & satellite communications systems in detail.
(b) What are the optical properties of radio waves?
5. (a) Explain about subscriber loop and standard telephone set.
(b) Describe the basic operation of a cordless telephone.
6. Write detailed notes on second generation cellular telephone systems and person communications satellite systems.
7. (a) Give brief explanation of Hammingcode.
(b) Bring out the differences between error detection and error correction.
8. (a) Explain data transmission modes in detail.
(b) Explain character and bit oriented protocols in detail.
