

Code :RR310503

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III B.Tech I Semester(RR) Supplementary Examinations, May 2011
DATA COMMUNICATIONS
(Computer Science & Systems Engineering, Information Technology, Computer Science & Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Explain the differences between two-wire and four-wire circuits.
(b) What are the various types of Data Communication Topology and explain.
2. What are the various methods available for error detection in error control? Briefly explain?
3. (a) What are the types of Data transmission Modes and explain?
(b) What are the types of Data Communications Protocols and give the Frame Format of these protocols.
4. Describe a local area network? What is the connecting medium used with local area networks? Explain the two transmission formats used with local area networks?
5. (a) Differentiate between PAP and CHAP.
(b) Give an overview of different switching methods.
6. (a) Give physical layer specifications for BRI.
(b) When a device uses a B channel how many bits can it send per frame?
7. (a) Give an overview of ATM applications.
(b) Describe user-related attributes of ATM.
8. (a) Discuss how STS s can be multiplexed to get a new STS with a higher data rate.
(b) Explain how overhead and data in an STS-1 are arranged in a matrix configuration.
