

III B.Tech I Semester Supplementary Examinations, November 2005

DATA COMMUNICATIONS

(Common to Computer Science & Engineering, Information Technology
and Computer Science & Systems Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What are the advantages of QPSK. [5]
(b) Find the probability of error of QPSK. [6]
(c) For different inputs find correlator output . [5]
2. What are the disadvantages of ring topology.Explain ring topology. [16]
3. (a) What is parity checking? How is parity generated? [4M]
(b) How is parity used for error detection? [4M]
(c) What is the difference between odd and even parity in terms of technical performance? [4M]
(d) What are the benefits of parity? [4M]
4. What are the benefits of implementing high speed serial interface technology in a network? [16M]
5. Explain the link access procedures in HDLC. [16M]
6. (a) Write short notes on frequency correlator. [6M]
(b) Calculate the frequency range at MG,combining network for the following assignment. [10M]

GP	SG	MG
3	13	2
5	D25	3
1	15	1
2	17	2

7. Which one you are saving by using statistical time-division multiplexing and prove it. [16M]
8. Give two full duplex protocols and explain their operation? [16M]
