

Third Semester B.Sc. (I.T.) Examination, June/July 2010
DATA COMMUNICATION

Time : 3 Hours

Max. Marks : 75

Instruction : Answer ***all*** questions from Part – A and answer ***any five*** questions from Part – B.

PART – A

1. What is Packet Switching ? (12×2+1×1=25)
2. What is data rate ?
3. What is MODEM ?
4. What is PDU ?
5. What is bit error rate ?
6. What is equalizer ?
7. Explain ATM.
8. Define Ethernet.
9. What is error detection ?
10. Explain Frame relay.
11. Define Multistage switch.
12. Define bipolar encoding.
13. Expand HDLC.

P.T.O.

PART – B

(5×10=50)

1. What is CRC ? Discuss with an example.
 2. What is Ring Topology ? Explain its working.
 3. Discuss various line coding techniques.
 4. Briefly discuss the OSI and TCP/IP protocol model.
 5. What do you mean by Media Access Control Protocol ? Explain different MAC protocols used in LAN.
 6. Discuss CSMA/CD protocol operation.
 7. Explain analog and digital repeaters.
 8. Explain the different Guided Transmission Media with diagram.
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