

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

Time : 3 Hours

Max. Marks : 75

**PART – A**

Answer **all** questions :

**(10×2+5×1=25)**

1. Write the basic data communication model.
2. Name the layers of OSI reference model.
3. What is half-duplex transmission ?
4. Distinguish between continuous signal and discrete signal.
5. Define repeater.
6. What is line coding ?
7. Write the basic characteristics of HDLC.
8. Give the IEEE 802.5 frame structure.
9. What are datagrams ?
10. What is peer-to-peer network ?
11. Explain the following :
  - a) URL
  - b) LLC
  - c) WLAN
  - d) CRC
  - e) WAP.

**P.T.O.**

## PART – B

Answer **any five** questions :

**(5×10=50)**

1. Explain the basic components of a communication model with diagram.
  2. Write a short note on TCP/IP reference model.
  3. Explain the different guided transmission media in detail.
  4. Write a note on Go-back-N ARQ.
  5. Explain link state and hierarchical routing.
  6. Discuss various congestion prevention policies.
  7. Write a note on NAT.
  8. Why should one deploy a WLAN ? Explain.
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