



BCA 09

**III Semester B.C.A. Examination, August 2011
DATA COMMUNICATION**

Time : 3 Hours

Max. Marks : 80

Instruction : Answer all questions in Part-A and either (a) or (b) of each question in Part-B.

PART - A

I. Answer all the questions : **(10×1=10)**

- 1) What is Distributed Processing ?
- 2) Identify the five components of data communication system.
- 3) Which OSI layers are the network support layers ?
- 4) What is an intelligent modem ?
- 5) What are the three major classes of guided media ?
- 6) Expand 1) DTE 2) DCE.
- 7) What are the two types of TDM ?
- 8) What are the difference between communication and transmission ?
- 9) Expand CSMA/CD.
- 10) Define shell sort.

II. Answer all the questions : **(4×5=20)**

- 11) Describe briefly internet works with a suitable diagram.
- 12) What is the major advantage of shields twisted pair with unshielded twisted pair cable ?
- 13) Describe briefly coaxial cable.
- 14) Explain Inverse Multiplexing.
- 15) Discuss the concept of redundancy in error detection.

P.T.O.

BCA 09



PART – B

Answer all the questions :

(5×10=50)

16) a) Explain the applications of data communication.

OR

b) Explain Tree topology with suitable diagram.

17) a) Explain the functions of the Network layer.

OR

b) Explain parallel transmission.

18) a) Explain EIA-232 Interface.

OR

b) Describe Satellite Communication in detail.

19) a) Explain Multiplexing applications in the telephone system.

OR

b) Describe FDM in detail.

20) a) Explain the functions of a Modem.

OR

b) Describe LRC in detail.
