Credit Based Second Semester B.C.A. Degree Examination, April/May 2017
(New Syllabus – Common to All Batches)
BASICS OF NETWORKING

Time : 3 Hours

Max. Marks : 80

Note : *Answer any ten questions from Part – A and one full question from each Unit in Part – B.*

PART – A

1. a) Define Networking.

   b) Differentiate Bandwidth and Throughput.

   c) List different types of connectors used with coaxial cables.

   d) What is Network protocol ?

   e) Define anycasting.

   f) Differentiate TCP and UDP.

   g) Expand i) ISDN ii) HDLC.

   h) Differentiate local bridge and remote bridge.

   i) What is gateway ? List different types of gateways.

   j) What is peer-to-peer connection ?

   k) What is user account ? List different type of user accounts in Windows 2000.

   l) Mention the use of zone files.

   (10×2=20)

PART – B
UNIT – I

2. a) Explain the hardware components of Networking.

   b) Explain OSI reference model with block diagram.

   c) Explain Star Topology with diagram. List the advantages and disadvantages of Star Topology.

   (4+6+5)

3. a) Explain different layers of TCP/IP reference model.

   b) Explain the benefits offered by WLANs over conventional LANs.

   c) Explain Bus Topology with diagram. List the advantages and disadvantages of Bus Topology.   (5+5+5)

UNIT – II

4. a) Explain the features of ARCNet.

   b) Explain different classes of IP addresses.

   c) Mention the features, advantages and disadvantages of POP.   (4+6+5)

5. a) Explain the working of FDDI. Mention its advantages and disadvantages.

   b) Explain IPX/SPX Addressing.

   c) Explain the features of IMAP.   (5+5+5)

UNIT – III

6. a) List and explain the differences between LAN and WAN technologies.

   b) Explain Switched56 with diagram. List its advantages and disadvantages.

   c) Explain ATM with diagram.   (6+5+4)

7. a) Explain the working of transparent bridge with block diagram.

   b) Write a note on VSAT communication.

   c) Explain Point-to-Point protocol.   (5+5+5)

UNIT – IV

8. a) Explain the features of Windows 2000 Server.

   b) List the steps of sharing a File in Windows 2000.

   c) Explain the working of DNS with diagram.   (5+5+5)

9. a) Differentiate Windows 2000 Server and Novell Netware.

   b) Explain different phases of leasing an IP address in DCHP with diagram.

   c) List the steps to configure DNS server.   (4+7+4)