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Sri Dharmasthala Mangalagiri
College of Business Management, Mangalore
Post Graduate Centre for Management
Studies and Research Library

BCACAC 156

**Credit Based Second Semester B.C.A. Degree Examination,
April/May 2014
(New Syllabus) (2012-13 Batch Onwards)
BASICS OF NETWORKING**

Time : 3 Hours

Max. Marks : 80

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

PART – A

1. a) What is a concentrator ? List any two concentrators. (10×2=20)
- b) Differentiate Half duplex and Full duplex.
- c) Differentiate Bandwidth and Throughput.
- d) What is a connector ? List any two connectors used to connect Optical Fiber cables.
- e) Differentiate Class I and Class II repeaters.
- f) What is a Network protocol ? List any two middle layer protocols used in LANs.
- g) Define Fault management and fault tolerance.
- h) Distinguish TCP and UDP.
- i) List any four connectivity options used in WAN.
- j) Name commonly used VSAT access technologies.
- k) List types of User Accounts in Windows 2000.
- l) Differentiate Local User Account and Domain User Account.

PART – B

UNIT – I

2. a) Explain Star topology. List its advantages and disadvantages.
- b) Explain the features of Twisted pair cables.
- c) Explain :
 - i) Cut-through switching
 - ii) Store-and-forward switching.

(6+5+4)

P.T.O.



3. a) Explain different layers of TCP/IP Reference model.
- b) Explain the functions of Switch.
- c) Differentiate Multi mode and single mode transmission. (7+5+3)

UNIT – II

4. a) Explain the working principle of Token Ring.
- b) Explain the advantages and disadvantages of Ethernet.
- c) Explain different devices used in an FDDI LAN. (5+6+4)
5. a) Explain IPX/SPX protocols with neat diagrams.
- b) Explain different classes of IP address.
- c) Define Any casting. Explain with example. (5+6+4)

UNIT – III

6. a) Explain the working of ISDN with a neat diagram.
- b) Explain the working of a Router with a neat diagram.
- c) What is a Gateway ? List and explain different types of gateways. (5+5+5)
7. a) Explain the concept of Leased Line connectivity in WAN.
- b) Explain with diagram how networks are connected with Infrared.
- c) List and explain different methods to build a Routing table. (5+5+5)

UNIT – IV

8. a) Explain the steps involved in the creation of Domain User Accounts.
- b) Explain the working of DNS with a suitable diagram.
- c) List the steps to configure DNS server. (5+5+5)
9. a) Explain different steps involved in sharing a Printer on the Server.
- b) List and explain different features of Novell Netware.
- c) Explain the steps involved in leasing an IP address in DHCP. (5+4+6)