

Reg. No.

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**BCACAC 156**



**Credit Based Second Semester B.C.A. Degree  
Examination, November/December 2015  
(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 of Part – B.

**PART – A**

Shri Dharmasthala Manjunatheshwara  
College of Business Management Lib (10x2=20)  
MANGALORE - 575 003

1. a) What are switches ?
- b) Expand NIC, CSMA/CD. 101
- c) What are the drawbacks of coaxial cables ?
- d) List the lower layer protocols used in LANs.
- e) List any two disadvantages of ARCNet.
- f) Define subnetting.
- g) What is CIDR ? 119
- h) List any two connectivity options used in WAN.
  - i) Differentiate LAN and WAN.
  - j) Expand ISDN, VSAT.
  - k) Define network operating system.
  - l) What is Active Directory Services ?

P.T.O.



## PART – B

## Unit – I

2. a) Define networking. Explain the need for networking.  
 b) Explain Bus topology. List its advantages and disadvantages. (5+5+5)  
 c) Explain different categories of UTP cables.
3. a) List and explain any five hardware components of networking.  
 b) Explain Ring topology. List its advantages and disadvantages.  
 c) Explain the functions of the following in a network. (5+6+4)  
 i) Repeater                      ii) Hub                      iii) Switch                      iv) NIC

## Unit – II

4. a) Explain Token Ring Frame format.  
 b) Explain the features of POP. (6+5+4)  
 c) Explain the features of HTTP.
5. a) Explain the features of Ethernet.  
 b) Explain IPX/SPX protocols.  
 c) Explain the features of SMTP with neat diagram. (5+5+5)

## Unit – III

6. a) Explain the features of POTS.  
 b) Explain different components of VSAT network with a diagram. (5+5+5)  
 c) What is routing table ? Explain its contents.
7. a) List advantages of leased lines and ISDN.  
 b) Explain the features of Microwave.  
 c) Explain ATM reference model with neat diagram. (5+5+5)

## Unit – IV

8. a) Explain the features of Windows 2000 Server.  
 b) Explain the steps involved in file sharing.  
 c) Explain the working of DNS with suitable diagram. (4+6+5)
9. a) What is a user account ? What are its functions ? List different types of user Accounts.  
 b) Explain DNS hierarchy with a neat diagram.  
 c) Explain the steps involved in creation of domain user accounts. (5+5+5)