Reg. No.

BCACAC 156

Credit Based Second Semester B.C.A. Degree Examination, April/May 2013 BASICS OF NETWORKING (New Syllabus) (2012-13 Batch Onwards)

Time: 3 Hours

Shri Dharmasthala Wanjunatheshwara College of Business Management Library
MANGALORE - 575 003 V OVA Max. Marks: 80

Note: Answer any ten questions from Part A and any one full question from each Unit in Part B. b) Explain the suructure and working

PART - A notes manual and work higher (10×2=20)

- 1. a) Define the term Bandwidth. Mention the measurement unit.
 - b) Write any two disadvantages of star topology.
 - c) What do you mean by Hybrid topology? Give example.
 - d) Differentiate half duplex and full duplex communication.
 - e) What do you mean by broadcasting? How it happens in Ethernet communication?
 - f) Expand TCP/IP and IPX/SPX.
 - g) Mention any two reasons for popularity of T-1 lines.
 - h) Which are the commonly used VSAT Access technologies?
 - i) Differentiate Network and Tunneling gateways.
 - j) What is networking operating system?
 - k) List any four permissions that can be given to a folder.
 - Define Active Directory and Active Directory Services.

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PART-B

- Credit Based Second Sell-TINUB.C.A. Degree Examination. 2. a) Mention the use of any four hardware components used for establishing network.
 - b) Sketch and explain OSI reference model.
- © ac) Explain two types of twisted pair cables with diagram.

(4+8+3)

- 3. a) Explain the services provided by Physical and Data Link layers.
 - b) Explain the structure and working of Bus topology.
 - c) Explain, how the transmission of data occurs in optical fibers in detail. (5+5+5)

UNIT – II

- 4. a) What is network protocol? What are the aspects of communication to be defined by it?
 - b) Explain the structure of FDDI. List the advantages of using FDDI.
 - c) Explain the function of SMTP and PPP with diagram.

- 5. a) Write a note on Fast Ethernet and Giga Ethernet.
 - b) Explain the process of filtering and forwarding in a network containing 8 subnets having Class C IP address. Obtain the IP address and subnet mask for each subnet. Also describe the calculation to be done by the route to identify which (6+9)subnet contains the destination. Differentiate Network and Tenneling gateviays

- 6. a) Describe the important differences between LAN and WAN technologies.
 - b) What is a Routing Table? Explain the information stored in it in detail.
 - c) What are the various types of ATM classes.

(5+6+4)



- 7. a) What is ISDN? Explain the working of it.
 - b) Explain the operations of Transparent bridges that searches a node in different networks.
 - c) Write a note on PPP.

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College Dusiness Management for (5+5+5)

UNIT-IV

- 8. a) Explain the features of Windows 2000 servers.
 - b) What are the two types of User Accounts offered by Windows 2000 server?
 Explain procedure for creating each of them with various settings. (6+9)
- 9. a) Explain the features of Novell Netware.
 - b) What is DNS? Explain DNS hierarchy.
 - c) How do you create the group user Account? Explain with various settings.
 - d) Briefly explain the working of WINS. (4+4+4+3)