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BCACAC 156

Credit Based Second Semester B.C.A. Degree Examination, April/May 2018
(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

(10×2=20)

1. a) Differentiate hub and switch.
- b) Define the following :
 - i) Bandwidth
 - ii) Throughput.
- c) What are thicknet and thinnet ?
- d) List the lower layer protocols used in LANs.
- e) List the protocols used in Transport layer of TCP/IP reference model.
- f) What are the components of IP addresses ?
- g) List different classes of ATM services.
- h) List the criteria required to satisfy for infrared communication.
 - i) List commonly used frequency bands for VSAT communication.
 - j) List the features of Windows 2000 Server.
- k) What are the settings available in New User dialog box of local user account ?
- l) List different internet tools and services offered by Windows 2000 Server.

PART – B

Unit – I

2. a) Explain different layers of OSI reference model with diagram.
- b) Explain bus topology. List its advantages and disadvantages.
- c) Explain the features of coaxial cables. List advantages and drawbacks.

(7+4+4)

P.T.O.



3. a) Explain different layers of TCP/IP reference model.
- b) Explain ring topology. List its advantages and disadvantages.
- c) Differentiate Single mode and Multi mode transmission. (6+5+4)

Unit – II

4. a) Explain the advantages and disadvantages of ethernet.
- b) Explain different classes of IP address.
- c) Explain the working of ARCNet. (5+5+5)
5. a) Explain POP and IMAP protocol.
- b) Explain IPX/SPX protocols with neat diagrams.
- c) Compare the features of IPV6 and IPV4. (6+4+5)

Unit – III

6. a) Explain the features and working of ISDN with a neat diagram.
- b) Explain the working of transparent bridge with a neat diagram.
- c) Explain PPP protocol. (6+5+4)
7. a) Explain the features and working of VSAT network with diagram.
- b) What is a Router ? Explain the working or router with diagram.
- c) What is a gateway ? List and explain different types of gateways. (5+5+5)

Unit – IV

8. a) Explain the steps involved in creation of domain user accounts.
 - b) Explain phases of leasing an IP address in DHCP.
 - c) Explain the working of WINS with diagram. (4+6+5)
 9. a) Explain DNS hierarchy with a neat diagram.
 - b) Explain different steps involved in sharing a printer on the server.
 - c) List the steps involved to configure WINS server. (5+5+5)
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