Reg. No. ☐☐☐☐☐☐☐

BCACAC 156

II Semester B.C.A. Degree Examination, April/May 2019

(Credit Based Semester Scheme)

(Common to All Batches)

Basics of Networking

Time : 3 Hours]   [Max. Marks : 80

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

PART – A

(10 × 2 = 20)

1. Answer **any ten** of the following :

    (a) Differentiate half duplex and full duplex.

    (b) Expand CSMA/CD, NIC.

    (c) What is attenuation?

    (d) Differentiate class I and class II repeaters.

    (e) List any two features of HTTP.

    (f) Define any casting. Give example.

    (g) List any two features of T3 Lines.

    (h) Differentiate LAN and WAN.

    (i) List different layer two protocol of WAN.

    (j) List any two important features of NOS.

    (k) Define active directory services.

    (l) List major components of User Accounts.

PART – B

UNIT – I

2. (a) Explain Star Topology. List its advantages and disadvantages.

    (b) Explain the features of twisted pair cables.

    (c) List and explain factors affecting transmission of signals over network.

    (6 + 5 + 4)

3. (a) Sketch and explain OSI reference model.

    (b) List the services provided by session layer.

    (c) Explain hybrid topology with a neat diagram.   (8 + 3 + 4)

UNIT – II

4. (a) Write a note on Ethernet communication.

    (b) Explain the functions of SMTP with neat diagram.

    (c) Explain the different classes of IP Addresses.   (5 + 5 + 5)

5. (a) Explain the working principle of Token ring.

    (b) Explain the features of POP.

    (c) Write a note on NETBEUI protocol.   (6 + 5 + 4)

UNIT – III

6. (a) Explain the features of POTS.

    (b) Explain the working of VPN Protocol.

    (c) Write a note on Point to Point Protocol.   (5 + 5 + 5)

7. (a) Explain the features of ISDN.

    (b) What is Gateway? List and explain different types of gateways.

    (c) What is router? Explain the working of router with diagram.   (5 + 5 + 5)

UNIT – IV

8. (a) Explain the features of windows 2000 server.

    (b) Explain the working of DNS with suitable diagram.

    (c) Explain the steps involved in creation of local user accounts.   (5 + 5 + 5)

9. (a) Explain the steps involved in creation of domain user accounts.

    (b) Explain the working of WINS.

    (c) List the important features of NOS.   (5 + 7 + 3)

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