M.C.A DEGREE EXAMINATION, JUNE 2024
Second Semester
MASTER OF COMPUTER APPLICATION
CORE - MCACT203 - COMPUTER NETWORKING WITH TCP/IP
2020 Admission Onwards

DB4E3FB2

Time: 3 Hours   Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1.   Define dialog control?

2.   What is a protocol and what are its components?

3.   Define the type of the following destination addresses .
        a) 4A:30:10:21:10:1A
        b) 47:20:1B:2E:08:EE
        c) FF:FF:FF:FF:FF:FF

4.   What are the two types of switching methods?

5.   Describe mapping of logical to physical address.

6.   Write short note on IPV6 Extension header?

7.   Classify types of autonomous systems in BGP.

8.   Discuss the UDP header format.

9.   What is an out of order segment?

10.   Define congestion control.

11.   Explain The concept of remote login.

12.   What is the difference between Persistent and Non persistent connection?

                                                                          (10×3=30 marks)

Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Explain about Network support layers in OSI model.

    OR

    b) Illustrate with example different type of addresses in Internet communication.

14. a) Explain the frame format of wired LAN.

    OR

    b) Briefly Explain Ethernet Evolution.

15. a) Discuss the four different cases in which the services of ARP can be used.

    OR

    b) Explain RIP Message format.

16. a) What are the services provided by TCP?

    OR

    b) Explain the features of TCP.

17. a) Discuss about NVT and its Embedding inTelnet.

    OR

    b) Explain Data and Control Communication in FTP.

(5×9=45 marks)