ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU -27 BCA (DATA ANALYTICS) – V SEMESTER SEMESTER EXAMINATION: OCTOBER 2023

(Examination conducted in November /December 2023)

BCADADE5423: COMPUTER NETWORKS

(For current batch students only)

Time: 2 Hours **Max Marks: 60**

This paper contains TWO printed pages and THREE parts

PART- A

ANSWER ALL THE QUESTIONS **5 x 2 = 10**

1. Expand i) HTTP ii) HTTPS
2. What are the functions of Data Link?
3. What do you mean by packet switching?
4. Where UDP is used for?
5. List the functions of SMTP

PART- B

ANSWER ANY FIVE QUESTIONS **5 x 4 = 20**

6. Compare and contrast packet switching and circuit switching
7. With a diagram explain the architecture of IEEE 802.11.
8. Explain Unicast and Multicast routing
9. Mention the differences between UDP and TCP.
10. Write short notes on TELNET.
11. What is DNS? What are the three main divisions of DNS?
12. Explain the role of following protocols
    i)   SNMP ii)   FTP   iii)   SMTPiv) DHCP

PART- C

ANSWER ANY THREE QUESTIONS **3 x 10 = 30**

13. Explain the ISO-OSI model of computer network with a neat diagram.   10
14.
        a. Discuss various types of networks topologies in computer network.   6
        b. Write a note on i) LAN ii) MAN   4

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15.
a. Describe CSMA/CD protocol. 6

b. What is IPV6? What are the limitations of IPv4 and the need for IPv6? 4

16. With neat sketch explain the architecture, services and message format of Electronic Mail. 10