(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2022   ONLY)   REG.NO.

22UDA6E7

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY 2025

B.Sc Cs with DA-SF   **MAXIMUM MARKS: 50**

SEMESTER: VI   **TIME : 3 HOURS**

PART – III
22UDA6E7 – COMPUTER NETWORKS
                            SECTION – A   **(10 X 1 = 10 MARK**
ANSWER THE FOLLOWING QUESTIONS.   **(K1)**

1. Which of the following is an example of Bluetooth?

   a) WAN   b) VPN   c) LAN   d) PAN

2. What is the term for an endpoint of an inter – process communication flow across a computer network?

   a) Port   b) Machine   c) Socket   d) Pipe

3. Suppose a TCP connection is transferring a file of 1000bytes, the first byte is numbered 10001.

   What is the sequence number of the segment if all data is sent in only one segment?

   a) 10000   b) 10001   c) 12001   d) 11001

4. A piece of icon or image on a web page associated with another webpage is called ___

   a) url   b) hyperlink   c) plugin   d) extension

5. The entire hostname has a maximum of __

   a) 255 characters   b) 127 characters   c) 63 characters   d) 32 characters

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES   **(K2)**

6. What is a Computer Network?

7. Define the term Digital.

8. What is a parity bit?

9. Define the term Packet.

10. What is DNS?

                            SECTION – B   **(5 X 3 = 15 MARKS)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.   **(K3)**

11.   a) Compare Connection oriented and Connectionless service.
                            (OR)
        b) Explain the functions protocols and services of each OSI layer?

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12. a) Explain about the Guided transmission media in Computer Networks?

(OR)

b) Describe the Mobile Telephone System.

13. a) Explain in detail Data Link layer design issues.

(OR)

b) How to find Error Detection and Correction in Computer Networks? Explain.

14. a) State the major differences between Distance Vector routing and Link State routing.

(OR)

b) Discuss the concept of Leaky Bucket algorithm.

15. a) Explain the duties of Transport layer.

(OR)

b) Describe Congestion avoidance in TCP.

SECTION – C   (5 X 5 = 25 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16. a) Write about Network Software and Hardware.

(OR)

b) Explain the ISO – OSI model of Computer Network with a neat diagram.

17. a) Draw the diagram and explain about Communication Satellites.

(OR)

b) Elucidate the concept of Wireless Transmission.

18. a) Explain the elementary Data Link protocols?

(OR)

b)Describe Sliding Window protocols.

19. a) Explain any two Routing algorithms.

(OR)

b) Point out the concept Flooding.

20. a) Explain the working of Electronic Mail.

(OR)

b) Elaborate on World Wide Web.

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