

(FOR THE CANDIDATES ADMITTED

23UDA6E7

DURING THE ACADEMIC YEAR 2023

ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS: MAY 2026

B.Sc. CS with DA

MAXIMUM MARKS: 75

SEMESTER: VI

TIME: 3 HOURS

PART - III

23UDA6E7 – COMPUTER NETWORKS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Length of Port address in TCP/IP is _____
a) 4bit long b) 16bit long c) 32bit long d) 8 bit long
2. Which transmission media provides the highest transmission speed in a network?
a) coaxial cable b) twisted pair cable c) optical fiber d) electrical cable
3. Which of the following tasks is not done by data link layer?
a) framing b) error control c) flow control d) channel coding
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. Putting files to the server from the computer is _____
a) Downloading b) Uploading c) Trashing d) Transferring

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is a Computer Network?
7. Define the term Modem.
8. What is NIC?
9. What is Flooding?
10. What is DNS?

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Compare LAN, MAN and WAN.
(OR)
b) Explain the protocols and services of each layer of TCP/IP model.
12. a) List the various transmission media and explain them.
(OR)
b) Describe the Mobile Telephone System.

13. a) Explain in detail Data Link layer design issues.
(OR)
b) Explain the elementary Data Link protocols.
14. a) Discuss Network Layer Design Issues.
(OR)
b) Explain Shortest Path Routing algorithm.
15. a) Write a short note on about Wireless issues in Congestion control (Transport Layer).
(OR)
b) Explain the working concept of Electronic Mail.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) Explain Network Software.
(OR)
b) Explain the ISO – OSI model of Computer Network with a neat diagram.
17. a) Discuss Communication satellites in detail.
(OR)
b) Elucidate the concept of Wireless Transmission.
18. a) Examine the Error detection and correction with an appropriate example.
(OR)
b) Describe Sliding Window protocols.
19. a) Explain the concept of Flooding.
(OR)
b) Discuss Multicast Routing algorithm.
20. a) Explain connection establishment and connection release in transport layer.
(OR)
b) Elaborate World Wide Web.

Ethical paper