(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2024-25 ONLY)

SUBJECT CODE **24UBC3A1**

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2025

B.C.A **MAXIMUM MARKS: 75**

SEMESTER: III **TIME : 3 HOURS**

PART – III
NETWORKS

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS. (K1)

1. Communication between a computer and a keyboard involves _____ transmission.
   a) Simplex b) Half-duplex c) Full-duplex d) Automatic
2. Which of the following is an error correcting code?
   a) Checksum b) Parity c) Cyclic Redundancy Check d) Hamming codes
3. What is the other name for distance vector routing algorithm?
   a) Ford and Fullman algorithm b) Bellman – Ford algorithm
   c) Ford and Fulkerson algorithm d) Bellman – Fulkerson algorithm
4. Encryption and decryption are the functions of the _____ layer.
   a) Transport b) Application c) Presentation d) Session
5. Which is not a application layer protocol?
   a) TCP b) FTP c) HTTP d) SMTP

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

6. Construct a note on LAN.
7. Define Piggybacking.
8. Interpret IP address.
9. Differentiate between plain text and cipher text.
10. Expand POP.

SECTION – B (5 X 5 = 25 MARKS)

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

11. a) Describe network hardware.
    (OR)
    b) Compare and contrast connection oriented and connectionless services.

12. a) List the types of communication satellites.
    (OR)
    b) Examine sliding window protocols.

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13.a) Describe link state routing algorithm.

(OR)

b) Compare IPV4 with IPV6.

14. a) Interpret authentication.

(OR)

b) Show about data compression.

15. a) Examine a note on Simple Mail Transfer Protocol.

(OR)

b) Interpret Hyper Text Transfer Protocol.

SECTION – C (5 X 8 = 40 MARKS)

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

(K4 (Or) K5)

16. a) Discuss in detail the uses of computer networks.

(OR)

b) Summarize OSI reference model with neat diagram.

17.a) Categorize the guided transmission media with example.

(OR)

b) Analyze - Error detection and correction Techniques.

18. a) Construct a notes on congestion control algorithm.

(OR)

b) Write detail notes on TCP.

19. a) Give an outline on session layer.

(OR)

b) Examine Encryption and Decryption.

20. a) Interpret an account of DNS with example.

(OR)

b) Discuss in detail E-mail.

ETHICAL PAPER

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