

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2021 ONLY)**

21UBC5E1

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023

COURSE NAME: B.C.A

MAXIMUM MARKS: 70

SEMESTER: V

TIME : 3 HOURS

PART - III

NETWORKS

SECTION - A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. What is the term for the data communication system within a building or campus?
a) MAN b) LAN c) PAN d) WAN
2. “Parity bits” are used for which of the following purpose?
a) Encryption of data b) To transmit faster c) to detect errors d) to identify the user
3. The length of an IPv6 address is _____.
a) 32 bits b) 64 bits c) 128 bits d) 256 bits
4. The _____ layer allows a process to add synchronization points into a stream of data.
a) Network b) Transport c) Session d) Presentation
5. Which is not an application layer protocol?
a) HTTP b) SMTP c) FTP d) TCP

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Define Protocol.
7. Distinguish between satellites Vs fiber transmission.
8. Differentiate IPv4 and IPv6 addresses.
9. Define Authentication.
10. Define Network security.

SECTION – B

(5 X 4 = 20 MARKS)

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

11. a) Show the uses of computer networks.

(OR)

- b) Interpret computer network hardware.

(CONTD.....2)

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

13.a) Assess the congestion control algorithm with neat sketch.
(OR)
b) What is QoS? Find out the attributes of Quality of Service.

14.a) Describe session layer.
(OR)
b) Interpret data compression.

15.a) Define DNS. Examine the different types of DNS with example.
(OR)
b) Describe in detail HTTP.

SECTION - C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21) (K4 (Or) K5)**

16. Summarize transmission media types with neat sketch. (K5)
17. Analyze the OSI reference model with neat diagram. (K4)
18. Discuss in detail Error detection and correction with example. (K5)
19. Classify the different types of Routing algorithms. (K4)
20. Survey on encryption and decryption with example. (K4)
21. Determine the message formats in E-mail. (K5)
