(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2020 ONLY)

20UBC5E1

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : DECEMBER-2022

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. The network layer is concerned with _____.
   a) Bits b) Frames c) Packets d) Byte
2. The distance between two consecutive maxima (or minima) is called the_____.
   a) Wave length b) Frequency c) Sample d) Wave
3. The _____entity carries out CONNECT primitive by blocking the caller and sending a packet to the server.
   a) Transport b) Network c) Physical d) Data link
4. Delimiting and synchronization of data exchange is provided by?
   a) Application layer b) Session layer c) Transport layer d) Link Layer
5. DNS namespace divided up into non-overlapping _____
   a) Pages b) Zones c) Area d) Sector

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

6. Define LAN.
7. Interpret Twisted Pairs.
8. What are the salient features of IPv6?
9. Comment on Presentation Layer.
10. Mention the main properties of HTTP?

SECTION – B (5 X 4 = 20 MARKS)

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

11. a) Write about the uses of Computer Networks.

(OR)

b) Distinguish between Connection-Oriented Versus Connectionless Service.

12. a) Discuss a One-Bit Sliding Window Protocol.

(OR)

b) Differentiate between the Satellites versus Fiber in communication

ETHICAL PAPER

(CONTD…..2)

13. a) Determine the Flooding Algorithm.

(OR)

b) Explain the following

i) UDP ii)Remote Procedure Call iii) Real Time Transport Protocol

14. a) Illustrate the functions Session Layer.

(OR)

b) Which layer is responsible for data compression? How does it perform? Explain.

15. a) Clarify Telnet Protocol. Is Telnet secure? How does it work?

(OR)

b) Describe the Hypertext Transfer Protocol.

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. Discuss in detail the OSI Reference Model with neat diagram.

17. Determine the terms of Network Hardware. Write the classifications of interconnected processors by scale.

18. Criticize on Error-Correcting Codes with an example.

19. Examine the various elements of transport protocols.

20. Analyze the operation performed by Presentation Layer.

21. Discuss about E.Mail protocols. Describe the email functionality to deliver the message.

****