Model Question Paper 2021-22
Class-10
Computer

Time: 3 hours 15 minutes   **Maximum marks-70**

Note: First 15 minutes are allotted for the candidates to read the question paper.

Instruction: All questions are compulsory.

1- Select and write the correct answer.   5x1=5

   i)The speed of transmission of data in a communication medium is often measured in-
   - a. CPS
   - b. BPS
   - c. BITS
   - d. DIP

   ii) Satellite broadcast is based on…………………………….Network topology.
   - a. Star
   - b. Tree
   - c. Bus
   - d. Ring

   iii) Which of the following is not a protocol?
   - a. TCP/IP
   - b. ISP
   - c. HTTP
   - d. X.25

   iv) Group of 8 bits is called-
   - a. Byte
   - b. Nibble
   - c. Word
   - d. Megabyte

   v) How many input variables can there be in a NOT Gate?
   - a. One
   - b. Two
   - c. Three
   - d. Infinite

2- Answer in brief the following: 5x1=5
   - a. Write the full form of LAN.
   - b. Write the full form of MODEM
   - c. Write the names of Boolean operators.
   - d. Define 'Byte'.
   - e. Give an example of a search engine.

3- Answer the following questions.   5x2=10

   a)Explain the following terms related to communication-

i)Simplex
ii)Duplex

b) What do you understand by complement system of 1ʹs ?
c) What is bandwidth? Give a brief introduction.
d) What do you understand by E-mail?
e) Differentiate between 'cat' and 'more' commands in Linux.

4- Answer all parts: 5x2=10

   a) Explain the following -
   i) Analog transmission.
   ii) Digital transmission.

   b) Write two advantages of star topology .
   c) What do you understand by ASCII?
   d) What is 'Messaging over LAN'.
   e) What do you mean by 'principle of duality'?

5-Answer all parts: 3x4=12

   a) Write the characteristics of Linux operating system.
   b) Describe the features and utilities of E-mail .
   c) Describe NAND and NOR Logic gates.

6-Answer all parts: 3x4=12

   a) What is network? Explain the different types of networks.
   b) What do you mean by function prototype? Explain with an example.
   c) What is Vi Text Editor? Describe briefly.

7-Write a program in 'C' to input the marks of 30 students and print the sum
 and average of their marks.   4x2=8
                                        or
What do you understand by the following terms-   4x2=8

   a)Searching
   b)Sorting

8-What is function? Write its major types? Explain with example.
                                                                          4x2=8
                        OR
What is Array? Explain its kinds with appropriate examples.   4x2=8