Muktangan English School & Jr. College, Pune - 9
Annual Examination (2024-25)
STD XI

Subject : Compnuter Science (Paper I)   Marks - 50
Date : 02.04.2025   Time : - 8.30 - 11.30 am

Q1. A)   Select the correct alternative and rewrite the sentences   (4)

1.   Writing the program in simple sequence and in simple english is known as _____ .

   a)   algorithm   b) Flow chart

   c)   Code   d) none of the above

2.   Strings in CPP are treated as _____.

   a)   integer array   b) float array

   c)   characte array   d) None of the above

3.   _____ is the extension for visual basic project file.

   a)   .vbp   b) .exe

   c)   .vbs   d) .vba

4.   The medium size network is _____.

   a)   LAN   b) MAN

   c)   VAN   d) none of the above

B)   Asnwer the following. (Any two)   (6)

1.   Explain 2's compliment subtraction method with suitable example.

2.   What are the steps involved in program development? Explain in brief.

3.   Define a nework and it's different types.

Q2. A)   Answer the following (Any two)   **(6)**

    1.   Explain the significance of break in switch case statement with example.

    2.   Find X if   i) $(2AC)_{16} = (X)_2$

                ii) $(11110.1101)_2 = (X)_{10}$

    3.   What are the characteristics of alogrithm.

B)   Asnwer the following (Any one)   **(4)**

    1.   Draw flow chart to find average of first ten numbers.

    2.   What is function? Explain advantages of using function in your program.

Q3. A)   Answer the following (Any two)   **(6)**

    1.   Explain the difference between prefix and postfix operator with suitable example.

    2.   What is the basic difference between client-server configuration and peer to peer configuration?

    3.   What is pointer? Write it's advantages.

B)   Answer the following (Any one)   **(4)**

    1.   Convert the following   i) $(102)_{10} = (?)_2$

                                ii) $(7FF.8)_{16} = (?)_{10}$

                                iii) $(88.625)_{10} = (?)_2$

                                iv) $(275)_8 = (?)_{10}$

    2.   Write a note on   a)   E-Commerce

                                b)   Chat

                                c)   FTP

                                d)   E-mail

Q4. A)   Answer the following (Any two)   **(6)**

    1.   What is the basic difference between structural and modular programming?

    2.   What is array? Give example

    3.   What are different types of data types in CPP?

B) Answer the following (Any one) (4)

1. Explain else - if ladder with suitable example.

2. What is binary search? Write it's algorithm.

Q5. A) Answer the following (Any two) (10)

1. Write a program in CPP to find factorial of given number.

2. Write a program in CPP to print table of a number.

3. Write a program in CPP to display following output

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

OR

B) Answer the following (Any two) (10)

1. Write a program in CPP to find odd numbers between 1 to 100 using for 100 p.

2. Write a program in CPP to print fibbonaci series.

3. Write a program in CPP to display following output

```
        *

      *   *

    *   *   *

  *   *   *   *

*   *   *   *   *
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