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Degree (Part-III) Examination, 2024

(Vocational)

COMPUTER APPLICATION

Paper Code : 400806

[Object Oriented Programming (C++ and Java) and Advance Topics in Computers]

Time : Three Hours]   [Maximum Marks : 100

Note : Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value. Answer **any five** questions. **Question No. 1** is **compulsory**.

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1. Choose the correct answer from the following :

    (i)   Operator ">>" is called ....

        (a).   get operator

        (b)   extraction operator

400806/1610   (1)   **Turn Over**

(c)   both (a) and (b)

(d)   none of these

(ii)   Which keyword is of Java?

(a)   Import

(b)   Interface

(c)   Implements

(d)   All of the above

(iii)   The size of "double" data type in java is :

(a)   2-byte

(b)   4-byte

(c)   8-byte

(d)   10-byte

(iv)   What will be the output of program .... int main ( )

{

        int z=10 ;

            do

```
    {
        cout < < z ;
            z++ ;
    } while (z > 10) ;
return 0 ;
}
```

(a)   10

(b)   11

(c)   Infinite execution

(d)   None of these

(v)   Which feature is not supported by java?

(a)   Thread

(b)   Interface

(c)   Applet

(d)   Template

(vi)   What will be the output of program ....
Class A

```
    {
        public static void main (String args[])
        {
```

```
int p=5 ;

    for (i=1 ; i<2 ; i++)

    {

        p=p+i;

    }

    System.out.println (P) ;

}

}
```

(a)   6

(b)   5

(c)   Error in code

(d)   None of these

(vii)   "jdk" stands for ....

(a)   java developer kit

(b)   java development kit

(c)   java do kit

(d)   java demo kit

(viii) Friend function is defined ....

    (a)   Outside class

    (b)   Inside class

    (c)   Inside constructor

    (d)   None of these

(ix) A destructor takes argument ....

    (a)   One

    (b)   Two

    (c)   Three

    (d)   Zero

(x) Which type of inheritance is not supported by Java ?

    (a)   Multi-Level

    (b)   Multiple

    (c)   Hierarchy

    (d)   Hybrid

2. (a) What is constructor in Java? Discuss the types of constructor in Java.

(b) Write a program using constructor to take two number and display arithmetical operation.

3. (a) Explain pure virtual function in C++ with suitable example.

(b) What is template class in C++? Write a program in C++ to print greatest between two value integer, float and character.

4. (a) Explain Inheritance in C++ with some advantages and their types in Java.

(b) Explain loop and their types in Java.

5. What is Array? Discuss types of array in Java with suitable example.

6. What is Applet? Write a program in Applet to Add two number and display values in Applet on Button Click.

7. (a) What is difference between procedural and object oriented programming language?

(b) Write differences between structure and class.

8.   (a)   What is access control specifier ? Explain with suitable example.

       (b)   What is Operator overloading ? Explain with suitable example.

9.   (a)   Explain Friend Function with suitable example.

       (b)   Write difference between C++ and JAVA.

10.   (a)   Discuss the advantages of OOPs.

       (b)   Explain "new" and "delete" keyword in C++.

THE END