Degree (Part-III) Examination, 2022

(Vocational)

COMPUTER APPLICATION

[PPU-D-III (H)-BCA-6]

[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**.

1.   Choose the correct answer from the following :

     (i)   Scope resolution operator is used :

         (a)   Outside function

         (b)   Inside function

(c)   Both (a) and (b)

(d)   None of these

(ii)   A default constructor have .... arguments.

(a)   Zero   (b)   One

(c)   Two   (d)   Three

(iii)   Which type of inheritance is in C++ truly used?

(a)   Single Inheritance

(b)   Multipath Inheritance

(c)   Multiple Inheritance

(d)   All of the above

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

(a)   get operator

(b)   extraction operator

(c)   both (a) and (b)

(d)   none of these

(v)   Which keyword is of Java?

    (a)   Import

    (b)   Interface

    (c)   Implements

    (d)   All of the above

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

    (a)   2-byte   (b)   4-byte

    (c)   8-byte   (d)   10-byte

(vii)   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

(viii)   Which feature is not supported by java?

    (a)   Thread   (b)   Interface

    (c)   Applet   (d)   Template

(ix)   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

(x) "jdk" stands for ....

(a) java developer kit

(b) java development kit

(c) java do kit

(d) java demo kit

2. (a) Write differences between C and C++.

(b) Write programming structure using class and their object in C++.

3. (a) What is friend function? Write using a suitable example.

(b) What is virtual function? Write some advantage of virtual function.

4.   (a)   Explain features of object oriented programming.

        (b)   Write a program in C++ using a member function passing object of class to display smallest between two number.

5.   (a)   Write a program using class and object in java to check a number is Palindrome or not.

        (b)   Write any five features of Java.

6.   (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.

7.   (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.

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

        (b)   Explain loop and their types in Java.

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

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

-----X-----