4008-06

Printed Pages : 8

Degree (Part-III) Examination, 2021

(Vocational)

COMPUTER APPLICATION

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

(Object Oriented Programming
(C++ & Java) & Advance)

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 followings :

(a)   Friend function is defined ....

(i)   Outside class ✓

(ii)   Inside Class

(iii)   Inside constructor

(iv)   None of these

(b)   A destructor takes argument ....

(i)   One

(ii)   Two

(iii)   Three

(iv)   Zero ✓

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

(i)   Multi-Level

(ii)   Multiple ✓

(iii)   Hierarchy

(iv)   Hybrid

(d) Operator << is called ....

  (i)   insertion operation

  (ii) put to operator

  (iii) both (i) and (ii)

  (iv) extraction operator

(e) Which keyword is not supported by Java ?

  (i)   friend

  (ii) import

  (iii) interface

  (iv) class

(f) The size of int data type in C++ :

  (i)   2

  (ii) 8

  (iii) 10

  (iv) None of these

(g) What will be the output of program ....

```
int main()

{

int z;

for(z=1;z<10;z++);

{

        cout<<endl<<z;

}

}
```

  (i)   1

  (ii) 5

  (iii) 10

  (iv) None of the above

(h) Java Developed By ....

  (i)   Denish Ritchi

  (ii) James Gosling

  (iii) Bajarne Strustroup

  (iv) None of the above

(i) The manipulator endl is equivalent to ....

  (i) \n

  (ii) \t

  (iii) \b

  (iv) None of the above

(j) Which one is not supported by Java ?

  (i) Package

  (ii) Operator Overloading

  (iii) Interface

  (iv) Applet

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

 (b) Write difference between structure and class.

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

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

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

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

5. (a) Discuss the advantage of OOPS.

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

6. (a) Discuss data types in C++ with example.

 (b) What do you mean by passing object to function state with example.

7. (a) What is virtual and pure virtual function in C++ ? Explain with example.

 (b) Write a program in C++ using class and object and take two number add them.

8. What is inheritance in Java ? Discuss types of inheritance in Java with suitable example ?

9.   (a)   What is thread ? Discuss life cycle of thread.

     (b)   What is Applet ? Discuss life cycle of Applet.

10.   Write short notes on the followings :

     (a)   Interface in Java

     (b)   Package in Java

     (c)   Exception Handling in Java

     (d)   Artificial Intelligence

------X------