Roll No. ....

B.C.A. (III)

1731

Java Prog.

B.C.A. Part-III EXAMINATION - 2022

Paper - I

BCA 301 - Java Programming

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four from the remaining questions.

2. All questions carry equal marks.

1. (i) What is JVM?   2×8=16

   (ii) Define the term variable?

   (iii) What is an abstract class?

   (iv) What do you mean by Statement?

(v)   What is an Object?

(vi)   What is an Applet Tag?

(vii) How to create an object in a Java?

(viii) What is Loop?

2.   (a)   Describe the structure of a java program with the help of suitable example.

      (b) Describe Java Environment in detail.   8×2=16

3.   (a)   Write a java program to calculate a factorial of a given Number by the user.

      (b) What is an Operator? Explain Increment and Decrement operator and Bitwise operator with the help of examples.   8×2=16

4.   (a)   What is Constructor overloading? Explain with suitable example.

      (b) What is Method? Explain the term method overloading with the help of suitable java program.   8×2=16

5.   Differentiate between the following: 8×2=16

      (a)   Overloading v/s Overriding

      (b)   Class v/s Interface.

6. (a) Explain the life cycle of applet with the help of examples.

    (b) Write a java program to perform an addition of two 2D matrix and Result will be store in another 2D matrix.   8×2=16

7. (a) What is an exception? Explain the following term.

    (i) Thread exception

    (ii) ERROR

    (b) Write a java program to implement a single-level inheritance.   8×2=16

8. Write short notes on the following :   4×4=16

    (i) Symbolic Constant

    (ii) Wrapper class

    (iii) Visibility control

    (iv) Getting input from the user.

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