BCA-13

Programming in JAVA

Bachelor of Computer Application (BCA-11/16/17)

Forth Semester Examination, 2019 (June)

Time : 3 Hours]   **Max. Marks : 80**

Note : This paper is of Eighty (80) marks divided into three (03) sections A, B and C. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains four (04) long answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

(2×19=38)

1. What is JAVA? Differentiate between JAVA script and JAVA in detail.

2. Explain the following using suitable example :

    (a)   Abstract class.

    (b)   Keyword.

    (c)   Encapsulation.

    (d)   Polymorphism.

    (e)   File Handling.

    (f)   String buffer class.

3. How can we implement multilevel inheritance in JAVA? Explain with example.

4. Explain exception handling in java. What is the use of try and catch build-in exceptions in java ?

SECTION–B
(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer any four (04) questions only.   (4×8=32)

1. Explain the java virtual machine (JVM).

2. Differentiate between C, C++ and JAVA.

3. What are the various looping statements available in JAVA?

4. What are various advantages of using package in JAVA?

5. Differentiate between JAVA applet and applications in detail.

6. What are various techniques to handle exceptions in JAVA?

7. Explain the use of recursive class in JAVA.

8. Explain the reading console input and writing console output.

SECTION–C
(Objective Type Questions)

Note : Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this section are compulsory. (10×1=10)

1. What is the numerical range of a char?

   (a) −128 to 127

   (b) $-(2^{15})$ to $(2^{15})-1$

   (c) 0 to 32767

   (d) 0 to 65535.

2. Which is a valid keyword in JAVA?

   (a) interface

   (b) string

   (c) float

   (d) unsigned.

3. Which of these can be returened by the operator &?

   (a) Integer

   (b) Boolean

   (c) Character

   (d) Integer or Boolean.

4. Which of these is necessary to specify at time of array initialization?

    (a) Row

    (b) Column

    (c) Both Row and Column

    (d) None of the above.

5. Decrement operator _____ decrease value of variable by what number ?

    (a) 1

    (b) 2

    (c) 3

    (d) 4.

6. Which concept of java is a way of converting real world objects in terms of class?

    (a) Polymorphism

    (b) Encapsulation

    (c) Abstraction

    (d) Inheritance.

7. What does AWT stands for?

    (a)   All window tools

    (b)   All writing tools

    (c)   Abstract window toolkit

    (d)   Abstract writing toolkit.

8. Which of these method of class string is used to obtain length of string object?

    (a)   get ()

    (b)   Sizeof()

    (c)   lengthof()

    (d)   length().

9. Which of these are selection statements in Java?

    (a)   if()

    (b)   for()

    (c)   continue

    (d)   break.

10. Which of these keywords is used to make a class?

   (a)   class

   (b)   struct

   (c)   int

   (d)   none of the above.

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