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BCA–13

Programming in JAVA

Bachelor of Computer Applications
(BCA–11/16/17)

Fourth Semester, Examination, 2018

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

Note : This paper is of **eighty (80)** marks containing **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 *two* (02) questions only.

1. What are the benefits of using packages ? Write down the steps involved in creating a package in a Java program with an example.

2. Explain in detail the following words using suitable example :

    (a) Java Token

    (b) Applet

    (c) Abstract class

(d) Keyward

(e) Vectors

(f) File Handling

3. What is object-oriented programming in context of JAVA ? Discuss about the features of object oriented programming in detail.

4. What are the various decision-making and control statements available in JAVA ? Explain switch statement with suitable example.

Section–B

(Short Answer Type Questions)

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

1. What do you mean by copy constructor in JAVA ?

2. What is Inheritance ? Explain multilevel inheritance with example.

3. Explain the term Array copy( ) and Multi-dimensional arrays.

4. What is Class in JAVA ? Explain with the help of example.

5. Explain the term AWT components in detail.

6. What is an Interface ? Write steps to implement interface in JAVA.

7. Explain the various type of JDBC drivers.

8. Explain the term I/O basics and the predefined streams.

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.

1. Which is a reserved word in the Java programming language ?

    (a) method   (b) native

    (c) subclass   (d) array

2. 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

3. Public Class Test( )

    What is the prototype of the default constructor ?

    (a) Test( )   (b) Test (void)

    (c) Public Test ( )   (d) Public Test (void)

4. A class to have access to members of another class in the same packages. Which is the most restrictive access that accomplishes this objective ?

    (a) public   (b) private

    (c) protected   (d) default access

5. Which of these packages contains all the classes and methods required for even handling in Java ?

    (a) java.applet

(b) java.awt

(c) java.event

(d) java.awt.event

6. What does AWT stand for ?

(a) All Window Tools

(b) All writing Tools

(c) Abstract Window Toolkit

(d) Abstract Writing Toolkit

7. Which of these operators can be used to concatenate two or more string objects ?

(a) +   (b) + =

(c) &   (d) ||

8. What is the process of defining a method in subclass having same name and type signature as a method in its superclass ?

(a) Method overloading

(b) Method overriding

(c) Method hiding

(d) None of the above

9. Which of these data types is used by operating system to manage the Recursion in Java ?

(a) Array   (b) Stack

(c) Queue   (d) Tree

10. Which of the following is not OOPs concept in Java ?

(a) Inheritance   (b) Encapsulation

(c) Polymorphism   (d) Compilation