AP-101

April-2022

BCA, Sem.-IV

CC-210 : Core Java

Time : 2 Hours]

[Max. Marks : 50

Instructions :
(1) **All** Questions in Section – **I** carry equal marks.

(2) Attempt any **Two** questions in Section – **I**.

(3) Question – **5** in Section – **II** is compulsory.

Section – I

1. (A) What is Operator ? Explain Binary and Unary operator.   10

    (B) What is Loop ? Explain types of loops with syntax and example.   10

2. (A) *Explain types of inheritance and differences of interface and abstract class.*   10

    (B) What is Array ? Explain type of array in detail.   10

3. (A) What is Package ? Explain creating and using packages with example.   *10*

    (B) What is Exception ? Explain exception handling techniques with example.   *10*

4. (A) Explain creation of new threads and state of thread in java.   *10*

    (B) What is Applet ? Explain hierarchy and life cycle of applet.   *10*

Section – II

5. MCQs : (Any **five**)   10

    (1) JDK stands for _____.

      (A) Java Development Kit   (B) Java Designer's Kit

      (C) Java Developer's Kit   (D) Java Definition Kit

    (2) An operator that performs an action on three operands is called _____.

      (A) Unary Operator   (B) Ternary Operator

      (C) Binary Operator   (D) None of Above

(3) Which is the keyword used for deriving classes ?

    (A) implements   (B) throws

    (C) extends   (D) inherits

(4) The parent class of all the exceptions in Java is _____.

    (A) Exception   (B) Throws

    (C) Throw   (D) Throwable

(5) What is the name of the tool that is used for compiling a Java program ?

    (A) javac   (B) javap

    (C) java   (D) javah

(6) What is the extension of the source files in Java ?

    (A) .jav   (B) .java

    (C) .bytecode   (D) .class

(7) Which type of exception does a sleep() method throw ?

    (A) Arrayindex out of bounds exception

    (B) Arithmetic exception

    (C) Interrupted exception

    (D) Nullpointer exception

(8) Which class provides the functionality to draw different shapes ?

    (A) Line   (B) Shapes

    (C) Graph   (D) Graphics

(9) Which method implicitly calls paint on an applet ?

    (A) repaint   (B) paint

    (C) callPaint   (D) None of above

(10) Which operator is used to perform bitwise inversion in Java ?

    (A) !   (B) ~

    (C) &   (D) |