National College of Computer Studies
(NCCS-College of IT & Management)
Final Examination (2023)

Full Marks: 10
Time: 20 minutes

Set A

BCA/Third Semester/ CACS 204: OOP in Java

Candidates are required to answer the questions in their own words as far as practicable.

NCCS
College of IT & Management

Name:…………………………………………………………………….

NCCS Reg no :……………………………..   Section: ………………………

Group "A"

Attempt all the questions.   **[10×1=10]**

1. Circle (O) the correct answers.

i. What is the extension of java code files?

    a. .js   b. .txt   c. .class   d. .java

ii. What will be the output of the following Java code?

```java
class increment {
    public static void main(String args[])
    {
        int g = 3;
        System.out.print(++g * 8);
    }
}
```

    a. 32   b. 33   c. 24   d. 25

iii. Which environment variable is used to set the java path?

    a. MAVEN_Path   b. JavaPATH   c. JAVA   d. JAVA_HOME

iv. What will be the output of the following Java program?

```java
class output {
    public static void main(String args[])
    {
        double a, b,c;
        a = 3.0/0;
        b = 0/4.0;
        c=0/0.0;
            System.out.println(a);
        System.out.println(b);
        System.out.println(c);
    }
}
```

    a. NaN   b. Infinity   c. 0.0   d. all of the mentioned

v. Which of the following is not an OOPS concept in Java?

    a. Polymorphism   b. Inheritance   c. Compilation   d. Encapsulation

vi. What is not the use of "this" keyword in Java?

    a. Referring to the instance variable when a local variable has the same name

    b. Passing itself to the method of the same class

    c. Passing itself to another method

    d. Calling another constructor in constructor chaining

vii. Which of the following is incorrect about constructors?

    a. Defining constructors can be implicit or explicit.

    b. The calling of constructors is explicit.

    c. Implicit constructors can be parameterized or parameter less.

    d. Explicit constructors can be parameterized or parameter less.

viii. The data members of a class by default are?

    a. protected, public   b. private, public   c. private   d. public

ix. Which of these cannot be used for a variable name in Java?

    a. identifier & keyword   b. identifier   c. keyword   d. none of the mentioned

x. Which of the following is not an OOPS concept in Java?

    a. Polymorphism   b. Inheritance   c. Compilation   d. Encapsulation

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Set B

BCA/Third Semester/ CACS 204: OOP in Java

Full Marks: 10
Time: 20 minutes

Candidates are required to answer the questions in their own words as far as practicable.

Name:……………………………………………………………………….

NCCS Reg no :…………………………………..   Section: ………………………

Group "A"

Attempt all the questions.   **[10×1=10]**

1. **Circle (O) the correct answers.**

   i. Number of primitive data types in Java are?

   a. 6   b. 7   c. 8   d. 9

   ii. What is the size of float and double in java?

   a. 32 and 64   b. 32 and 32   c. 64 and 64   d. 64 and 32

   iii. Automatic type conversion is possible in which of the possible cases?

   a. Byte to int   b. Int to long   c. Long to int   d. Short to int

   iv. Find the output of the following code.
   ```
   int Integer = 24;
   char String  = 'I';
   System.out.print(Integer);
   System.out.print(String);
   ```
   a. Compile error   b. Throws exception   c. I   d. 24 I

   v. Find the output of the following program.
   ```
   public class Solution{
   public static void main(String[] args){
        short x = 10;
        x =  x * 5;
        System.out.print(x);
        }
    }
   ```
   a. 50   b. 10   c. Compile error   d. Exception

   vi. Find the output of the following program.
   ```
   public class Solution{
   public static void main(String[] args){
        byte x = 127;
        x++;
        x++;
        System.out.print(x);
        }
    }
   ```
   a. -127   b. 127   c. 129   d. 2

   vii. Select the valid statement.

   a. char[] ch = new char(5)   b. char[] ch = new char[5]
   c. char[] ch = new char()   d. char[] ch = new char[]

   viii. Find the output of the following program.
   ```
    public class Solution{
    public static void main(String[] args){
    int[]  x = {120, 200, 016};
    for(int i = 0; i < x.length; i++){
         System.out.print(x[i] + " ");
           }
        }
    }
   ```
   a. 120 200 016   b. 120 200 14   c. 120 200 16   d. None

   ix. Interface contains _____.

   a. Abstract methods only   b. Non Abstract methods   c. Both   d. None

   x. The default scope for the members of a class is_____.

   a. private   b. public   c. protected   d. internal

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