



DJJ-003-017204

Seat No. \_\_\_\_\_

**M. Sc. (Sem. II) (CBCS) (Statistics) Examination**

May / June – 2015

**STAT. CST : 2004 : Java Programming**

**Faculty Code : 003**

**Subject Code : 017204**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

**Q-1 Attempt the following (Any Seven)**

**(14)**

I. Java was introduced in the year ?

- a. 1995                      c. 1991  
b. 1992                      d. 1994

II. What is the output of the given code?

```
class Modulus {  
    public static void main(String args[]) {  
        int x = 42;  
        double y = 42.25;  
        System.out.println("x mod 10 = " + x % 10);  
    }  
}
```

- a. 2                      c. 10  
b. 4                      d. 8

III. What is the general form of 'If' statement?

- a. if(Condition) Statement;  
b. if(Statement) Condition;  
c. if(Statement) Condition  
d. if(Statement, Condition);

IV. Which primitive type have this range '-32,768 to 32,767'?

- a. Int      b. Short      c. Double      d. float

V. 

```
class CharDemo2 {  
    public static void main(String args[]) {  
        char ch1;  
        ch1 = 'X';  
        System.out.println("ch1 " + ch1);  
        ch1++; // increment ch1  
        System.out.println("ch1 is now " + ch1);  
    }  
}
```

What is the output of this program?

- a. X,Y      b. X,X                      c. Y,X      d. Y,Y

VI. class DynInit  
 {  
     public static void main(String args[])  
     {  
         double a = 3.0, b = 4.0;  
         double c = Math.sqrt(a \* a + b \* b);  
         System.out.println("Hypotenuse is " + c);  
     }  
 }

Give the output of this program.

- a. 25                      b. 10                      c. Error                      d. 5

- VII. '^='this operator is called as ?  
 a. Bitwise unary NOT                      c. Bitwise exclusive OR  
 b. Bitwise AND assignment                      d. Bitwise exclusive OR assignment

- VIII. A). A *constructor* initializes an object immediately upon creation  
 B). It has the same name as the class in which it resides and is syntactically similar to a method.

- a. A). is true B). Is wrong                      c. Both are false.  
 b. Both are true                      d. None of the above

- IX. What is the general form of 'for' loop statement?

- a. for(x = 0; x<10; x = x+1)  
 b. for(x = 0; x<10; x++)  
 c. Both  
 d. None of them

- X. ' ? ' this operator is which type of operator?

- a. Boolean                      c. Relational  
 b. Assignment                      d. Ternary

**Q-2 Answer the following questions (Any Two) (14)**

- (A) Describe the History of JAVA  
 (B) Describe *Garbage Collection* and *finalize method* of java.  
 (C) Write a program of Chi-Square Test  
 (D) Explain the buzzword of JAVA

**Q-3 Answer the following questions (14)**

- (A) Write a short-note on 'this' keyword.  
 (B) Define left shift (<<) operator with short program

**OR**

**Q-3 Answer the following questions (14)**

- (A) Explain *Method Overloading* with example.  
 (B) Explain *Method Overriding* with example.

**Q-4 Answer the following questions (Any Two) (14)**

- (A) Explain *throw*, *throws*, and *finally* in java  
 (B) What is the Jump Statement in Java? List the jump statements  
 (C) Describe the Interface in Package and how to implement it.  
 (D) Define Type conversion and Type casting.

**Q-5 Answer the following questions (Any Two)**

**(14)**

(A) Write a program of Arithmetic Mean, Geometric Mean and Harmonic Mean.

(B) Explain Primitive Data types of Java with a short programme

(C) Define Types of Operators in Java

(D) Write a program to get the following output

```
0
0 1
0 2 4
0 3 6 9
0 4 8 12 16
0 5 10 15 20 25
0 6 12 18 24 30 36
0 7 14 21 28 35 42 49
0 8 16 24 32 40 48 56 64
0 9 18 27 36 45 54 63 72 81
```