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B022414(022)

B. Tech. (Fourth Semester) Examination
April-May 2021

OBJECT PROGRAMMING (with Java)

Time Allowed : Three hours

Maximum Marks : 100

Minimum Pass Marks : 35

*Note : Questions no. (a) is compulsory and attempt any
two questions from (b), (c) and (d).*

Unit-I

1. (a) Give the name of top class of all the classes in java
and top package which is default pacakage.   4

   (b) Java is not a 100% pure object oriented programming
language. Explain with suitable example.   8

(c) Write a program taking input from user 1 to 3 and do the following : 8

   (i) If the input is 1 call the default constructor.

   (ii) If the input is 2 call the constructure with one integer parameter.

   (iii) If the input is 3 call the constructor with one string parameter.

(d) What is JVM? Also explain the role of Garbage Collector with suitable program. 8

Unit-II

2. (a) Give uses of super in Java. 4

(b) Differentiate between Abstract class and Interface with example. 8

(c) Find the output of the two following code : 8

   (i) public class test

```
{
    public static void main (String [ ] args)
    {
        try
        {
```

```
            System.out.printf ("1") ;
            int sum = 9 / 0 ;
            System.out.printf ("2") ;
        }
        catch (Artithmetic Excpeption e)
        {
            System.out.printf ("3") ;
        }
        catch (Excpeption e)
        {
            System.out.printf ("4") ;
        }
        finally
        {
            System.out.printf ("5") ;
        }
    }
}
```

   (ii) public class test

```
{
    private void m1( )
    {
        m2 ( );
```

```
                System.out.printf ("1") ;
        }
        private void m2 ( )
        {
            m3 ( );
            System.out.printf ("2") ;
        }
        private void m3 ( )
        {
            System.out.printf ("3") ;
            try
            {
                int sum = 4 / 0 ;
            System.out.printf ("4") ;
            }
            catch (Arithmetic Exception e)
            {
                System.out.printf ("5") ;
            }
            System.out.printf ("7") ;
        }
        public static void main (String [ ] args)
        {
```

```
                Test obj = new Test ( ) ;
                obj.m1 ( ) ;
        }
}
```

(d) Write a program in Java to demonstrate user throw. Also explain checked throw. Also explain checked and unchecked exception.   8

Unit-III

3. (a) Which one is the master class of exceptions?   4

(b) Explain the concept of Lock in java. Also explain Thread Priority.   8

(c) Explain string and string buffer class. What is mutable and immutable in java?   8

(d) Explain Inter Thread Communication. :What is Daemon Thread?   8

Unit-IV

4. (a) What is the functioning of who is?   4

(b) Write a program to add 2 numbers using Applet.   8

(c) Explain all types of JDBC Bridge drivers. 8

(d) Write a program using inter address class and show the utility of URL and URL connection classes. 8

Unit-V

5. (a) What is AWT? 4

(b) Explain Event Delegation Model. 8

(c) How do you retrieve all keys present in a Hash Map? 8

(d) Write the steps of creating and running executable JAR files in java. 8

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