322553(22)

B. E. (Fifth Semester) Examination, Nov.-Dec. 2016

(New Scheme)

(CSE Branch)

PROGRAMMING in JAVA

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : *Attempt all questions. Part (a) from each question is compulsory. Attempt any two parts from parts (b), (c) and (d) of each question.*

Unit-I

1. (a) What will be the output of the program?   2

```
Class Bitwise
{
    Public static void main (string args [ ] )
    {
        int x = 11 & 9;
        int y = x^3;
        system.out.println (y|12);
    }
}
```

(b) Write a program for inputting a string through keyboard and count the occurrence of character in the given string.   7

(c) Explain the following in nutshell :   7

   (i)   Garbage collection

   (ii) Security promises of JAVA

(d) Write the difference between constructor overloading and method overloading with proper example.   7

Unit-II

2. (a) What will be the output of the program?

```
class Foo
{
    Public static void main (string args [ ] )
    {
        try
        {
            return;
        }
        finally
        {
            system.out.printHn("Finally");
        }
    }
}
```

(b) Discuss the various level of access protection available for packages and their implications.   7

(c) Create a by block that is likely to generate three types of exception and then incorporate necessary catch blocks to catch and handle them appropriately with proper explanation.   7

(d) Define an exception called "No Match Exception", that is thrown when a string is not equal to "INDIA". Write a program that uses this exception.　7

Unit-III

3. (a) What will be the output of the following program code?　2

```
Public Class Test implements Runnable
{
    Public static void main (string args [ ] )
    {
        Thread t = new Thread (this);
        t.start ( );
    }
    public void run ( )
    {
        system.out.println ("test");
    }
}
```

(b) Define Multithreading. Write a program on following output by using multithreading concept.　7

Output

0

0

0

1

1

1

2

2

2

3

3

Third finished

Second finished

}

First finished

(c) Short notes on the following :　7

   (i) Byte streams

   (ii) Character streams

   (iii) Serialization

[2]

```
Class Bitwise
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Unit-II

2. (a) What will be the output of the program?   2

[3]

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class Foo
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