00694

CS-74

BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)

Term-End Examination, 2019

CS-74 : INTRODUCTION TO INTERNET PROGRAMMING

Time : 2 Hours   Maximum Marks : 60

Note : Questions **no.1** is **compulsory**. Attempt **any two** questions from the rest.

1.   (a)   Write a program to accept two numbers on the command line and print out their product.   [5]

     (b)   What is the advantage of inheritance ? How can a class inherit the properties of any other class in Java ?   [5]

     (c)   Explain the concept of an interface. What is the scope and nature of variables and methods defined in an interface ?   [4]

     (d)   How is super ( ) is used with a constructor ?   [2]

(e) What is the difference between an exception and an error ? [2]

(f) Explain the following keywords with an example of each : [4×3=12]

(i) Import

(ii) Instance of

(iii) default

(iv) new

2. (a) What is a constructor in java ? Why does a constructor not have a return type in java ? Explain with a suitable example. [6]

(b) What is the output of the following code ? [2]

```
Public class test {
Public static void main (string [ ] args)
{
    int i =10;
    int j =10;
    boolean b = False;
```

```
if (b=i=j)

    {

        System. out. print/n("True");

    }

else

    {

        System. out. print/n ("False");

    }

}

}
```

(c)   What is method overriding ? What restrictions
        are placed on method overriding ?   ·   [5]

(d)   Describe the significance of wrapper classes.[2]

3.   (a)   What are java input and output stream ? What is
               the necessity of two types of streams- byte stream
               and character stream ? What is the top level claas
               of all streams ?   [7]

(b)   What are the applet life cycle methods ? Explain them with a java program.   [5]

(c)   What is the purpose of the wait (), notify() and notify All() methods ?   [3]

4.   (a)   What is the method to retrieve the color of text ? Write a java program to retrieve the RGB values of a color.   [6]

(b)   What is a java package ? Why do we need packages ? Explain.   [5]

(c)   What is the Java Virtual Machine ?   [4]

5.   (a)   What is exception handling in Java ? Why it is used ? Explain with a small Java program.   [8]

(b)   Write a java program to illustrate the use of the switch statement.   [5]

(c)   Can we override static methods ? Why ?   [2]

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