No. of Printed Pages: 4

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised) Term-End Examination June, 2015

CS-74 : INTRODUCTION TO INTERNET PROGRAMMING

Time : 2 hours

Maximum Marks : 60

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- Note: Question number 1 is compulsory. Attempt any two questions from the rest.
- 1. (a) What will be the result of the following code?

int b = 10;

System.out.println ((b = 3) + b);

(b) Given that Product is a class, how many objects and how many reference variables are created by the following code ?

Product item, stuff;

item = new Product();

Product entity = new Product();

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(c) State whether *True* or *False* for the following statements :

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- (i) An object is an instance of a class.
- (ii) An empty file is a valid source file.
- (iii) A Java source file can contain more than one class definition.
- (iv) Constructor name must be the same as the class name.
- (v) Native methods are also called foreign methods.
- (d) What will be the result of attempting to compile and run the following class?

public class A {

public static void main (String[] args){

int X, Y, Z;

Y = 10;

}

ł

X = Y = Z = 20;

System.out.println(X);

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(e) Explain the difference between the following, using code fragments where appropriate : 9 (i) equals() and = =Volatile and Transient (ii) Abstract class and Interface (iii) (f) What is a wrapper class ? List the eight primitive wrapper classes. 4 What is a constructor ? What is the (**g**) purpose of default constructor ? Does constructor return any value ? Write a constructor for a class Area that is used to calculate the area of a figure. 6 What is a Local class ? What are the 2. (a) restrictions that apply to local classes? 6 (b) What is Typecasting ? Illustrate with the help of an example. 4 (c) What is the difference between build path and classpath? 2 How do we define a constant variable in (**d**) Java? 3 3. (a) Explain the Applet life cycle. 6 (b) How would you initialize an array of long with five elements? 2 Explain Java Thread Model with diagram. (c) 7 3 **CS-74** P.T.O.

- 4. (a) What is inheritance? Give an example of a class and a subclass. Which class is the superclass for every class?
 - (b) What is a package ? Which package is imported by default in Java program ?
 - (c) What are Final classes ? Give two examples of Final classes defined in Java API.
 - (d) What are the restrictions imposed on a static method or a static variable?
- 5. (a) With the help of examples, explain the difference between If statement and Switch statement.
 - (b) Write a Java program to set the color of a string to blue ? Give descriptive comments in your code.

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