

BACHELOR OF COMPUTER APPLICATIONS**(BCA) (Pre-Revised)****Term-End Examination****December, 2015****CS-74 : INTRODUCTION TO INTERNET
PROGRAMMING***Time : 2 hours**Maximum Marks : 60*

Note : Question number 1 is compulsory. Attempt any two questions from the rest.

1. (a) What are the Access modifiers available in Java ? Explain the effect of each. 5
- (b) What is the difference between sleep() and wait() methods ? Explain with examples. 4
- (c) What will be the result of attempting to compile and run the following program ? 3

```
public class A {  
    public static void main (String[ ] args) {  
        String a, b, c;  
        c = new string ("keyboard");  
        a = new string ("mouse");  
        b = a;  
        a = new string ("monitor")  
        c = b;  
        System.out.println(c);  
    }  
}
```

- (d) Explain the usage of Java packages. How would you use classes of a different package in your program ? 4
- (e) What is the purpose of a finally block ? Is it necessary that every try block has it ? Give an example of code to explain. 6
- (f) What is Synchronization ? Explain. 4
- (g) What is an Interface ? What modifiers are allowed for methods in an interface ? 4
2. (a) Which classes may be used for reading from and writing to the console ? 4
- (b) What is the purpose of Native methods in Java ? Explain with the help of an example. 6
- (c) What is Garbage collection ? What is the purpose of Finalize() method ? 5
3. (a) What is the difference between a while statement and a do while statement ? Giving syntax, explain each statement with example. 8
- (b) Write a Java program to set the font of your string as "Verdana", font size as "16" and font style as "FONT.BOLD". 7

4. (a) What is the difference between Boolean AND operator and the Bitwise AND operator ? Explain with example. 7
- (b) What are the usages of this() and super() with constructor ? Explain with example. 8
5. (a) Find the error(s), if any, in the following code. Also, correct the error and give the output. 4
- ```
public class test {
 public static void main (String [] args) {
 int a = 3;
 int b = 1;
 if (a = b)
 System.out.println ("Equal");
 else
 System.out.println ("Not equal");
 }
}
```
- (b) Under which situations are the break and continue statements used ? Explain with examples. 6
- (c) Explain user-defined exceptions in Java, with examples. 5