



**B.E DEGREE EXAMINATIONS- NOV/DEC 2014**

(Regulation 2009)

Seventh Semester

**ELECTRONICS AND COMMUNICATION ENGINEERING**

ITY105: Internet and Java Programming

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-  
PART A (10 x 1 = 10 Marks)**

1. What is meant by the cell spacing attribute in HTML?
  - a) It makes the cell span more than one row
  - b) It specifies the space between the cell wall and the contents of the cell.
  - c) It makes the cell span more than one column
  - d) It specifies the space between two cells.
  
2. \_\_\_\_\_ among the following ones is a most popular UNIX e-mail program
  - a) Lynx
  - b) Pine
  - c) Firefox
  - d) Chrome
  
3. What will be the output of the program?

```
for(int i = 0; i < 3; i++)
{
    switch(i)
    {
        case 0: break;
        case 1: System.out.print("one ");
        case 2: System.out.print("two ");
        case 3: System.out.print("three ");
    }
}
System.out.println("done");
```

  - a) one two done
  - b) one two three two three done
  - c) done
  - d) one two three done
  
4. Given the following code:

```
class Base { int x = 10; }
class Derived extends Base
{ int x = 20; }
main function
Base b = new Base();
Derived d = new Derived ( );
Base bd = new Derived();
The statement
```

```
System.out.println(b.x + " " + d.x + " " + bd.x);
```

will produce the output

- a) 20 10 20
- b) 20 20 10
- c) 10 20 20
- d) 10 20 10

5. public interface Foo

```
{  
    int k = 4; /* Line 3 */  
}
```

Which three pieces of codes are equivalent to line 3?

- 1. final int k = 4;
- 2. public int k = 4;
- 3. static int k = 4;
- 4. abstract int k = 4;
- 5. volatile int k = 4;
- 6. protected int k = 4;

- a) 2,3 and 4
- b) 4,5, and 6
- c) 3,4 and 5
- d) 1,2 and 3

6. The root class of all java classes is\_\_\_\_\_

- a) Throwable
- b) Object
- c) Exception
- d) java

7. Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

- a) java.util.HashSet
- b) java.util.ArrayList
- c) java.util.List
- d) java.util.LinkedHashSet

8. What is the output of this program?

```
import java.io.*;  
public class filesinputoutput {  
    public static void main(String[] args) {  
        String obj = "abc";  
        byte b[] = obj.getBytes();  
        ByteArrayInputStream obj1 = new ByteArrayInputStream(b);  
        for (int i = 0; i < 2; ++ i) {  
            int c;  
            while ((c = obj1.read()) != -1) {  
                if (i == 0) {  
                    System.out.print(Character.toUpperCase((char)c));  
                    obj2.write(1);  
                }  
            }  
            System.out.print(obj2);  
        }  
    }  
}
```

- a) AaaBaaCaa
- b) ABCaaa
- c) AaBaaCaaa
- d) AaBaCa

9. Applet viewer tool is available in which of the folder of JDK

- a) bin
- b) Applet
- c) jdk
- d) awt



23. a) (i) Interpret the need of five keywords involved in exception handling with suitable examples. (10)  
(ii) Why multiple inheritance is not supported in java and how it is supported indirectly in java. (4)

**(OR)**

- b) (i) Write a java program using string to do the following operation using switch case: (8)  
a. To find the longest and shortest word in a given sentence.  
b. To modify all the occurrences of a substring in a given string.  
(ii) Discuss about the need of packages. Explain how access control modifiers are related to packages. (6)

24. a) (i) List the methods involved in interthread communication and explain it. Write a java program using inter thread communication to implement a producer consumer problem. (8)  
(ii) Illustrate with suitable diagram, the methods involved in lifecycle of thread. (6)

**(OR)**

- b) (i) Distinguish between Hashmap and Hashset. Explain about the methods involved in Hashmap and Hashset with suitable examples. (8)  
(ii) Write a java program using streams and switch case to do the following operations: (6)  
a) Get the file contents as input from the user and write it into a file named "one.txt"  
b) Count the number of lines present in the file "one.txt"

25. a) (i) Discuss in detail about any four listener interfaces with their methods. (8)  
(ii) Write a event handling applet program to generate a password for the user based on the surname, middlename and age. (6)  
Note: The password must be generated only from the user details(surname,miidlename,age)

**(OR)**

- b) (i) Interpret the need of GridLayout and BorderLayout in applets with suitable examples for each. (8)  
(ii) Write an event handling applet program to find the sum,reverse product of digits a given number using lists. (6)

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