Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot

Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER - 2017

Bachelor of Computer Application / B.Sc. Information Technology

16UCACC10 / 16UITCC10 - OBJECT ORIENTED PROGRAMMING WITH JAVA

Duration of Exam – 3 hrs   *Semester – III*   *Max. Marks – 70*

Part A (10X1= 10 marks)

Answer **ALL** questions

1. JVM stands for _____.
2. What is Byte code in java?
3. Define private and public access specifiers.
4. Define super keyword.
5. Define checked and unchecked exception.
6. What will be the output of the program?

```
public class X
{
    public static void main(String [] args)
    {
        try
        {
            badMethod();
            System.out.print("A");
        }
        catch (Exception ex)
        {
            System.out.print("B");
        }
        finally
        {
            System.out.print("C");
        }
        System.out.print("D");
    }
    public static void badMethod() {}
}
```

Select any one.
  i) AC
  ii) BC
  iii) ACD
  iv) ABCD

7. List out the Two methods provided by the graphics class with its arguments.
8. Write name of any two LayoutManager.
9. List out KeyListener interface methods.
10. State the reason why programmer prefer the swing rather than AWT component for providing GUI to the applet.

Answer **ALL** questions

11a. Difference between POP and OOP.

OR

11b. Write down Java Tokens (language building block of java).

12a. What is inheritance? List out types of inheritance and explain any one type of inheritance with example.

OR

12b. What is method overriding? and explain it with example.

13a. Explain Exception Handling Mechanism with example.

OR

13b. What is Thread? Draw and explain Thread Life cycle in brief.

14a. Write a code for draw smiley face on appletviewer.

OR

14b. Difference between AWT and SWING.

15a. Write a program to handle KeyEvent.

OR

15b. What is event handling? Explain event Delegation Model.

Part C (5X7= 35 marks)

Answer **ALL** questions

16a. Write note on Java Features.

OR

16b. What is constructor? and explain constructor overloading with example.

17a. What is Method Overloading? Explain it with example.

OR

17b. What is interface? and explain it with example.

18a. Differentiate final, finally and finalize method.

OR

18b. Explain the concept of synchronization in multiple thread.

19a. Write a program that create an applet with 3 button with different color label, change the color of the applet background according to the selection of the button.

OR

19b. What is applet? Explain applet life cycle with common example.

20a. Write a program to demonstrate the swing component like JLabel, JTextField, JTextArea, JRadioButton, JCheckbox, JButton.

OR

20b. Write a program to handle MouseEvent.

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