Roll No. ....

IT-505

B. E. (Fifth Semester) EXAMINATION, Dec., 2011

(Information Technology Engg. Branch)

JAVA PROGRAMMING

(IT—505)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note :   Attempt any *five* questions. All questions carry equal marks.

Unit — I

1. (a) If you have the source code for a Java program and you want to run that program, you will need both a compiler and an interpreter. What does the Java compiler do and what does the Java interpreter do ?   8

   (b) What do you mean by abstract class and abstract method and why do we need it ? Write a programme for abstract class and abstract method.   12

Or

2. (a) Explain the difference between an Abstract class and Interface.   8

   (b) Consider the following two classes :
   Public Class Class A

   {

       Public void methodone (int i)

       { }

P. T. O.

```
Public void methodtwo (int i)
    { }
Public static void methodthree (int i)
    { }
Public static void methodfour (int i)
    { }
Public Class Class B
{

Public static void methodone (int i)
    { }
Public void methodtwo (int i)
    { }
Public void methodthree (int i)
    { }
}
```

(i)   Which method overrides a method in superclass ?
                                                    4

(ii)   Which method hides a method in the superclass ?
                                                    4

(iii)   What do the other methods do ?   4

Unit – II

3. (a) What is the requirement of Java applets ? Create an applet to display the shape of triangle, rectangle, circle with different colors.   12

   (b) Are swing a lightweight component ? What is a heavy weight component ?   8

Or

4. What is the concept of AWT ? Give the code to create the following controls :   20

   (a) Button   (b) Canvas
   (c) Check box   (d) List

Unit – III

5. (a) How do we set priorities for threads ? Explain with programme. 10

   (b) What is finally block ? When and how is it used ? Give a suitable example. 10

Or

6. Develop a simple real life application program to illustrate the use of multithreads. 20

Unit – IV

7. (a) Distinguish between the following : 10

   (i) Inputstream and Reader classes

   (ii) Outputstream and Writer classes

   (b) Write short notes on the following : 10

   (i) JDBC exception classes

   (ii) JDBC-ODBC bridge

Or

8. Write a program to create a sequential file that could store details about five products. Details include product cost, code and number of items available and are provided through the keyboard. 20

Unit – V

9. Discuss the steps of creating RMI application with an example. 20

Or

10. Write short notes on the following : 20

    (i) RMI registry services

    (ii) Client server architecture

    (iii) TCP and UDP sockets

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