Roll No. ....

IT–505(N)

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

(Information Technology Engg. Branch)

JAVA PROGRAMMING

[IT – 505(N)]

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

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

Unit – I

1. (a) Explain the difference between an abstract class and interface. 8

    (b) Write a Java program to implement method overloading and method overriding. 12

Or

2. (a) What is package ? Explain the packages with an example and how to import packages. 8

    (b) Explain constructor overloading with an example. Also describe the usage of super keyword. 12

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Unit – II

3. (a) Explain the layout managers in Java. Also describe the concept of menus. 10

 (b) Assume that each letter occupies a box fifteen pixels wide by fifteen pixels high. Write an applet which takes a single letter as a parameter and fills the available space with that letter. 10

Or

4. (a) Write a program to study radio buttons. 10

 (b) What is an applet ? Distinguish between Java applets and Java application. 10

Unit – III

5. (a) Write a class that keeps a running total of all characters passed to it (one at a time) and throws an exception if it is passed a non-alphabetic character. 10

 (b) What is thread ? Define the thread class. 10

Or

6. (a) Explain the Java defined exceptions. 10

 (b) What do you mean by multithreading ? Write a sample code for multithreading. 10

Unit – IV

7. (a) Explain the architecture of JDBC. 8

 (b) How can we move the cursor in scrollable result sets. 12

Or

8. Write notes on the following : 20

 (i) Streams

 (ii) String to Kenizer

Unit — V

9. (a) Explain the various networking classes and interfaces using Java.net packages. 12

   (b) Write steps of creating RMI application. 8

Or

10. (a) What is URL and gives its format. 8

   (b) What is Proxy Server ? Explain TCP/IP client sockets. 12