Third Semester MCA Degree Examination, June 2012
Programming with JAVA

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. Mention the features of JAVA and explain any four.   **(10 Marks)**
   b. What is type conversion and casting? Explain automatic type promotion in expressions with rules and demo program.   **(10 Marks)**

2 a. Define constructor. Explain constructor overloading with example.   **(10 Marks)**
   b. What is method overloading and method over riding? Explain with suitable example.
                                                                                       (10 Marks)

3 a. Define package. Explain the access protection for class members.   **(10 Marks)**
   b. What is an exception? Explain the exception handling mechanism.   **(10 Marks)**

4 a. What is multithreading? Explain the interthread communication.   **(10 Marks)**
   b. What is serialization? Explain any four methods defined by object output stream. **(10 Marks)**

5 a. Explain any five methods present in string class to compare strings.   **(10 Marks)**
   b. Explain five methods present in the string buffer class.   **(10 Marks)**

6 a. Explain list interface.   **(10 Marks)**
   b. Explain Array list class and linked list class.   **(10 Marks)**

7 a. What is a TCP/IP client socket? Explain the two types of TCP sockets in JAVA. **(10 Marks)**
   b. What is RMI? Explain its process.   **(10 Marks)**

8 a. Explain Applet Architecture along with initialization and termination of Applet. **(10 Marks)**
   b. Explain:
      i) Jtabbed pane   ii) Jlist
      iii) Jcombobox   iv) Jtext field   v) JButton class.   **(10 Marks)**

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