MCA DEGREE IV SEMESTER EXAMINATION APRIL 2013

CAS 2403/2404 JAVA PROGRAMMING

Time: 3 Hours   Maximum Marks: 50

PART A
(Answer *ALL* questions)

$(15 \times 2 = 30)$

I.   (a) What are the different data types in Java?
      (b) Differentiate between abstract class and interfaces.
      (c) What is an innerclass and what are the different types of inner classes?

II.   (a) What is MVC design pattern?
      (b) Explain try........catch with an example.
      (c) What is pop-up menu and how it is created in swing?

III. (a) What are the different thread states?
      (b) What are the different I/O streams in Java?
      (c) What is meant by serialization in Java?

IV.   (a) What is a concrete collection and mention the different collections in Java?
      (b) What is LDAP? Mention its uses.
      (c) What are priority queues? Give example.

V.   (a) Describe briefly the client-server communication with a diagram.
      (b) How can we create a JAR file? Give an example.
      (c) What is java bean customization and persistence?

PART B

$(5 \times 4 = 20)$

VI.   A.   With an example explain how we can convert a java application to java applet, which can be displayed in an HTML page.
                                    OR
      B.   Write a java program to sort the students in your class according to the rank obtained in the examination.

VII. A.   Explain any two component from each of the text input and choice component.
                                    OR
      B.   Explain any four dialog boxes in Java swing.

VIII. A.   Write a java program to copy the content of a text file to another file.
                                    OR
      B.   What are threads? How we can create threads? Illustrate with a simple example and explain.

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IX. A. Explain any four legacy collection and mention its different methods (functions).

OR

B. Explain the following in developing database application in Java with sample codes.
  (i) Database connection
  (ii) DB creation and inserting new records
  (iii) Displaying and updating records
  (iv) Deleting the records and DB itself

X. A. Explain Remote Method Invocation in Java.

OR

B. Explain the different types of Java bean properties.

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