USN ☐☐☐☐☐☐☐☐☐☐

10MCA41

Fourth Semester MCA Degree Examination, June 2012

Topics in Enterprise Architecture - I

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. Explain the J2EE architecture.   **(06 Marks)**
     b. Describe the various steps of JDBC with code snippets.   **(04 Marks)**
     c. Write a note on database metadata interface.   **(10 Marks)**

2 a. Briefly explain the callable statement object. Write a program to call a stored procedure.
                                                                                                   (10 Marks)
     b. What is transaction processing? Write a program to execute a database transaction.**(10 Marks)**

3 a. What are scrollable result set objects? Explain with a programming example.   **(10 Marks)**
     b. List out the benefits of servlet over CGI.   **(04 Marks)**
     c. Explain servlet API.   **(06 Marks)**

4 a. What is a servlet? What are the phases of servlet life cycle? Give an example.   **(10 Marks)**
     b. With code snippet, explain how cookies are handled in Java with servlets.   **(10 Marks)**

5 a. What is session tracking? How session tracking is handled in Java with servlets.   **(10 Marks)**
     b. List and explain core classes that are provided in JAVAX.Servlet package.   **(10 Marks)**

6 a. Explain the difference between servlets and JSP. Explain different types of JSP tags with
         syntax.   **(10 Marks)**
     b. What is a JAVA Bean? Explain the advantages of using JAVA Beans.   **(05 Marks)**
     c. Describe the attributes of the <JSP : VseBean> Tag.   **(05 Marks)**

7 a. What are the different kinds of enterprise Beans? Explain.   **(10 Marks)**
     b. What is a deployment descriptor? List the deployment descriptor for EJB1.1.   **(06 Marks)**
     c. Write a note on JAR file.   **(04 Marks)**

8   Write short notes on:
     a. Tomcat server
     b. Stateless and stateful session bean
     c. Advantage of JSP
     d. JDBC driver types   **(20 Marks)**

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