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Fourth Semester MCA Degree Examination, June/July 2013
Topics in Enterprise Architecture – I

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Describe in detail JDBC architecture and function of each component. (10 Marks)
 b. Describe in detail all JDBC driver types along with their advantages and disadvantages. (10 Marks)
- 2 a. Briefly describe the situations where you should use prepared statement. (04 Marks)
 b. Explain with the help of a simple program, how to use a prepared statement to process the result of "Select" SQL query. (06 Marks)
 c. Write a stored procedure to transfer money from one bank account to another. The stored procedure must take the following parameters as input:
 * First bank account no.
 * Second bank account no.
 * The amount of money to be transferred from the first account to the second.
 Also write a simple Java program to invoke the stored procedure using callable statement interface. (10 Marks)
- 3 a. Discuss the life cycle of servlets with appropriate method implementations. (10 Marks)
 b. Differentiate the following with the help of an example:
 i) GET and POST methods.
 ii) Servlet context and servlet config. (10 Marks)
- 4 a. Write a java servlet program for implementing the following :
 * Accept user name and password from HTML page.
 * Login verification against the database.
 * Appropriate message to be displayed using the request dispatcher method. (10 Marks)
 b. Briefly explain the purpose of using filters in conjunction with servlets. (04 Marks)
 c. Write a servlet method to keep track of the users using cookies. (06 Marks)
- 5 a. Briefly explain the three types of directives used in JSP with illustration. (09 Marks)
 b. Outline the steps involved in creating custom tags in JSP. (07 Marks)
 c. Explain <jsp:plugin> action tag with an example. (04 Marks)
- 6 a. Write the code segment to add an icon to a bean. (05 Marks)
 b. Briefly explain the following variations with respect to standard properties supported by JavaBeans model:
 * Bound properties
 * Constrained properties. (05 Marks)
 c. Write a Java JSP program to accept employee information through a HTML. Also create a Javabean class, populate the bean and display the same information through JSP. (10 Marks)
- 7 a. Discuss the life cycle and implementation of stateful session bean in EJB. (10 Marks)
 b. Write a message driven bean program which implements publisher / sub scriber model. (10 Marks)
- 8 Write short notes on the following:
 a. Life cycle of java server pages.
 b. Deployment descriptor in servlets.
 c. Advantages of JSP over servlets.
 d. Benefits of using Java beans. (20 Marks)

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