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10MCA41

Fourth Semester MCA Degree Examination, June/July 2014
Topics in Enterprise Architecture – I

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain the JDBC process steps in detail. (10 Marks)
b. Explain the types of statement objects in JDBC with an example. (10 Marks)
- 2 a. Write a JDBC program to select columns from a employee table using statement object. (10 Marks)
b. Write an embedded SQL queries for joining and viewing tables, with example. (10 Marks)
- 3 a. Define servlet. Explain servlet life cycle and its advantages over CGI. (10 Marks)
b. Explain the servlet API in detail. (10 Marks)
- 4 a. Define session tracking in java. Explain how the session tracking is implemented in java. (10 Marks)
b. Explain multi-tier applications using database. (10 Marks)
- 5 a. Explain the JSP scripting element tag and directive tags in JSP in detail. (10 Marks)
b. Describe the architecture of JSP with diagram. (10 Marks)
- 6 a. Write a java JSP program to get student information through html and create a java bean class, populate bean and display the same information through another JSP. (10 Marks)
b. Explain the introspector and property descriptor in java bean. (10 Marks)
- 7 a. Define stateless and state full session bean. Explain the code skeleton of session bean and entity bean. (10 Marks)
b. Explain the methods available in message driven bean and explain the functionality of event descriptor. (10 Marks)
- 8 Write short notes on the following:
a. Data types in SQL.
b. Filter API.
c. Custom tags and JSTL tags.
d. JAR file in EJB. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.