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10MCA41

Fourth Semester MCA Degree Examination, Dec.2015/Jan.2016
Topics in Enterprise Architecture – I

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. What is JDBC? Explain the components of JDBC with an architectural diagram. (12 Marks)
b. Explain the different types of JDBC drivers. (08 Marks)
- 2 a. What is class.forName method? Explain how you will establish connection to a database with a JDBC driver. (10 Marks)
b. What is ResultSet? Explain with program code to retrieve a particular column using ResultSet. (10 Marks)
- 3 a. What is a servlet? Explain the phases of servlet life cycle. (10 Marks)
b. What is session tracking? Explain the mechanisms you can implement to track sessions. (10 Marks)
- 4 a. What is JSP? List the advantages of JSP over servlet. (10 Marks)
b. Discuss the JSP models of architecture with suitable diagram. (10 Marks)
- 5 a. What is Java Bean? What are the advantages of Java bean? (08 Marks)
b. What is JSP tag? What are the four types of JSP standard tag library? (12 Marks)
- 6 a. Write a Java program to create a simple Java bean to demonstrate how beans work. (10 Marks)
b. Explain the following:
i) Entity Java Bean
ii) Message-driven Bean (10 Marks)
- 7 a. What are the steps required for using a bean in JSP? Create a JSP page to register an instance of a bean class. (10 Marks)
b. List and describe the interfaces available in the java.beans package. (10 Marks)
- 8 Give brief note on :
a. HttpServletRequest
b. Java.sql package
c. ACID properties of a transaction
d. Deployment descriptor (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.