

USN

--	--	--	--	--	--	--	--	--	--

10MCA41

Fourth Semester MCA Degree Examination, June/July 2015
Topics in Enterprise Architecture – I

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1. a. What is JDBC? Explain JDBC drivers in detail. (10 Marks)
b. How batch updates are implemented in Java? (05 Marks)
c. Explain the implementation of BLOB and CLOB in java. (05 Marks)
2. a. Write a complete JDBC program to execute the following queries:
i) Count the member of employees whose salary is between 20,000 and 30,000.
ii) Arrange the employees based on salary in each department. (10 Marks)
b. What are the different types of JDBC statements available? Explain them with suitable examples. (10 Marks)
3. a. Write a Java servlet which reads two parameters from the webpage (HTML), say value1 and value2 and find the sum and product of the two values and return back the result as a webpage. (8 Marks)
b. List and explain core classes that are provided in javax.servlet.http package. (07 Marks)
c. What are cookies? Develop the servlets that add and display cookie values. (05 Marks)
4. a. What are servlets? Why it is necessary to deploy servlet into web servers? (04 Marks)
b. Explain multitier application using JDBC. (08 Marks)
c. What is the purpose of using <jsp : useBean> tag? Explain in detail. (08 Marks)
5. a. What is JSP? Explain the stages of JSP life cycle. (06 Marks)
b. Discuss JSP implicit objects with suitable examples. (08 Marks)
c. How directive tags are used in JSP? (06 Marks)
6. a. What are the advantages of Java Bean? Describe the design patterns for Java Bean. (10 Marks)
b. Write a JSP program to get employee information through HTML and create a bean class, populate Bean and display the same information through another JSP. (10 Marks)
7. a. What is EJB? Explain the EJB architecture. (08 Marks)
b. Discuss the functions of EJB transaction attributes. (04 Marks)
c. Explain Container-Managed persistence and Bean-Managed persistence. (08 Marks)
8. Write a short notes on:
a. Connection pooling
b. Session tracking
c. JSP tags
d. EJB deployment descriptor. (20 Marks)

* * * * *

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.