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13MCA42

Fourth Semester MCA Degree Examination, June/July 2015
Advanced Java Programming

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1.
 - a. Define Servlet. Explain advantages of servlet over CGI. (04 Marks)
 - b. Discuss the life cycle of servlet with appropriate method implementations. (06 Marks)
 - c. List out the request headers and explain the methods to read request headers. (10 Marks)

2.
 - a. What is the difference between session cookie and persistent cookies? How to keep track of the user session using cookies. (06 Marks)
 - b. Explain the advantages of JSP over servlets. (04 Marks)
 - c. What is JSP? Explain about JSP expressions, JSP declarations, JSP scriptlets with syntax and example. (10 Marks)

3.
 - a. Explain all the attributes of JSP page directives. (10 Marks)
 - b. What is the difference between <jsp:include> action tag and include directive? (04 Marks)
 - c. Write a Java JSP program to accept employee information through a HTML. Also create Javabean class, populate the bean and display the same information through JSP. (06 Marks)

4.
 - a. Mention the different types of JDBC drivers. (04 Marks)
 - b. Describe various steps of JDBC with code snippets. (06 Marks)
 - c. Explain the following with code snippet : i) Scrollable Result Sets ii) Batch Updates (10 Marks)

5.
 - a. Mention and explain the Built-in annotations of Java. (10 Marks)
 - b. Explain the Bound and constrained properties for design patterns. (10 Marks)

6.
 - a. Describe the basic JDBC datatypes and advanced JDBC datatypes. (08 Marks)
 - b. Explain the container services provided by component model of EJB. (12 Marks)

7.
 - a. Discuss the life cycle of message driven bean. (05 Marks)
 - b. What is session bean? Explain the types of session beans. (10 Marks)
 - c. What is entity bean? Explain the java persistence model. (05 Marks)

8. Write a short note on the following:
 - a. Status codes.
 - b. SendRedirect() method.
 - c. HTTP response headers.
 - d. Packages and interfaces.

(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.