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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.