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13MCA42

Fourth Semester MCA Degree Examination, June/July 2017
Advanced Java Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. List out differences between GET method and POST method with respect to servlets. (03 Marks)
 b. Explain the complete structure of servlet life cycle. (07 Marks)
 c. Narrate the major range of http status codes along with their purpose. (05 Marks)
 d. Write a java servlet program to demonstrate auto web page refresh by displaying current date and time. (05 Marks)
- 2 a. What are the need, benefits and advantages of JSP? (06 Marks)
 b. With an example, describe the various tags available in JSP. (08 Marks)
 c. Write a JSP program to include an applet along with necessary applet code. (06 Marks)
- 3 a. Explain the following page directive attributes along with an example program:
 (i) Import
 (ii) errorPage and isErrorPage
 (iii) ContentType
 (iv) buffer and autoflush (10 Marks)
 b. Write a JSP program to read data from a HTML form (Gender data from radio buttons and colours data from check boxes) and display. (10 Marks)
- 4 a. What is a package? With an example, explain usage of sub packages. (06 Marks)
 b. Differentiate an interface with an abstract class. (06 Marks)
 c. How are jar files created and used? Explain its advantages. (08 Marks)
- 5 a. Discuss built-in annotations with an example program. (09 Marks)
 b. What is a manifest file? Mention its importance (04 Marks)
 c. Write a Java JSP program to create Java bean from a HTML form data and display it, in a JSP page. (07 Marks)
- 6 a. With an example program, describe the steps involved in connecting a Java program to a database. Perform insert, delete and select operations. (10 Marks)
 b. What are prepared statement object and callable statement object? When do we use them? Explain with an example code. (10 Marks)
- 7 a. List the differences between stateless session bean and stateful session bean. (06 Marks)
 b. Explain any four annotations used in EJB along with their meaning. (04 Marks)
 c. Demonstrate a program to implement an Entity bean. (10 Marks)
- 8 Write a short notes on:
 a. Single thread model interface.
 b. Architecture of JSP.
 c. getName () and getValue ().
 d. @Documented and @Target annotations. (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.