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13MCA42

Fourth Semester MCA Degree Examination, June/July 2016
Advanced Java Programming

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1. a. Define servlet. Explain the basic servlet structure and its life cycle methods. (10 Marks)
b. Briefly explain the different HTTP 1.1 request headers. (10 Marks)
2. a. List and explain any ten HTTP 1.1 status codes. (10 Marks)
b. With the help of an example, explain how to use cookies to remember user preferences. (10 Marks)
3. Write a brief note on the following: (20 Marks)
 - a. JSP expressions.
 - b. JSP scriptlets.
 - c. JSP declarations.
 - d. JSP directives.
4. a. Write a JSP program to generate ten random numbers within one hundred. (10 Marks)
b. With an example, explain the "import attribute" and the "session attribute". (10 Marks)
5. a. Define java bean and state its advantages. Explain the features of java bean. (10 Marks)
b. Explain how to add color property to simple bean, with an example. (10 Marks)
6. a. With the help of an example program, explain how to obtain a connection to the database using JDBC. (10 Marks)
b. Briefly explain the different basic JDBC data types. (10 Marks)
7. a. Write a brief note on the following: (10 Marks)
 - i) Session beans.
 - ii) Entity beans.
b. With the help of a neat block diagram, explain the life cycle of a stateless session bean. (10 Marks)
8. Write a brief note on the following: (20 Marks)
 - a. Instance pooling / caching.
 - b. Transactions.
 - c. Security.
 - d. Timers.

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.

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