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13MCA42

Fourth Semester MCA Degree Examination, Dec.2017/Jan.2018

### Advanced Java Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain servlet life cycle methods with example. (10 Marks)  
b. Explain session setAttribute and getAttribute methods with example. (10 Marks)
- 2 a. Explain Cookie Constructor, addCookie and getCookies methods. (10 Marks)  
b. Explain JSP scriptlet elements. (10 Marks)
- 3 a. Explain JSP @page attributes. (10 Marks)  
b. Explain JSP predefined variables. (10 Marks)
- 4 a. Explain JDBC process steps for querying database. (10 Marks)  
b. Explain prepared statement with set methods. (10 Marks)
- 5 a. Explain annotation with built-in annotations. (10 Marks)  
b. Explain benefits of Java bean and Java bean descriptor API. (10 Marks)
- 6 a. Explain Singleton, stateless and statefull session bean. (10 Marks)  
b. Explain entity bean life cycle methods. (10 Marks)
- 7 a. Write a servlet program to demonstrate GET and POST methods. (10 Marks)  
b. Write a JSP program which uses <jsp:forward> and <jsp:include> action tags. (10 Marks)
- 8 Write short notes on:
  - a. HttpServlet (05 Marks)
  - b. JDBC Driver (05 Marks)
  - c. Deployment descriptor (05 Marks)
  - d. Container and bean managed persistent (05 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.