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 quering 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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