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Fourth Semester MCA Degree Examination, Dec.2016/Jan.2017
Advanced Java Programming

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1
 - a. Explain the structure of a servlet program with a servlet template. (08 Marks)
 - b. List and explain the methods involved in the servlet life cycle. (06 Marks)
 - c. Write a servlet program which demonstrates the usage of the get parameter () method. (06 Marks)

- 2
 - a. List and explain any six methods of HttpServlet Request class. (06 Marks)
 - b. Explain the steps in detail involved in sending the cookies to the client. (09 Marks)
 - c. Write a servlet program to check whether the session is new or old. (05 Marks)

- 3
 - a. What is the need for JSP, benefit and advantages of JSP over competing technologies? (10 Marks)
 - b. Explain the different types of JSP tags with an example for each. (10 Marks)

- 4
 - a. List all the attributes of page directive tag and explain any five with an example for each. (10 Marks)
 - b. Write a JSP program which displays an applet with the help of <jsp:plugin>tag. (10 Marks)

- 5
 - a. What is a Java Bean? What are the key concepts of Java Bean? List out the advantages of Java Bean. (10 Marks)
 - b. What are the different categories of JDBC drivers? (06 Marks)
 - c. What are basic steps that need to be followed while writing an application that uses JDBC API? (04 Marks)

- 6
 - a. Explain Prepared statement object with an example java program. (10 Marks)
 - b. What is the advantage of using add Batch () and execute Batch () methods in JDBC. (06 Marks)
 - c. Explain the following advanced JDBC data type: BLOB, CLOB. (04 Marks)

- 7
 - a. Explain transactions, security and Timer specification of container services in EJB. (10 Marks)
 - b. With a neat diagram, explain the states of life cycle of a stateless session Bean. (10 Marks)

- 8

Write short notes on :

 - a. Creating a jar file (05 Marks)
 - b. Scrollable Result set (05 Marks)
 - c. Message Driven Bean (05 Marks)
 - d. Dependency Injection. (05 Marks)

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