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3C7131

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MCA III Semester (Main & Back) Examination, Dec. - 2018
MCA - 301A Java Technologies

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 32

Instructions to Candidates:

Attempt All questions.

Marks of question are indicated against each question.

1. Answer each question in **one** line.   (10×1=10)

   a)   What are scriplets?

   b)   How JSP is used in the MVC model?

   c)   What is deployment descriptor?

   d)   Differentiate between GET and POST request.

   e)   Differentiate between ResultSet and ResultSetMetadata.

   f)   Define JDBC.

   g)   What is Spring?

   h)   What is JavaFx?

   i)   What is the difference between Servlet and JSP?

   j)   What do you understand by thread?

2. Answer each question in not more than 50 words :   (5×3=15)

   a)   Explain the life cycle of Servlet.

   b)   What are the differences between execute, executeQuery and executeUpdate?

   c)   What are different types of JDBC drivers? Explain.

   d)   What are different standard actions in JSP?

   e)   What is the role of Dispatcher Servlet in Spring?

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3. Answer each question in not more than 150 words. (5×4=20)

   a) What do you understand by Inter Servlet communication? Explain with the help of example.

   b) What is ViewRosolver in Spring?

   c) What are the steps to connect to the database in Java? Explain with the help of example. http://www.rtuonline.com

   d) What is the difference between include directive and jsp : include action?

   e) What are different types of session tracking techniques? Explain.

4. a) What do you understand by multitier architecture? Explain. (2×10=20)

   b) What are different implicit objects in JSP? Explain with the help of example.

5. Write a program using JSP and JDBC that submits the name of the city from the user and displays the details of all the cab services available in that city along with their names, contact details and their base Charges using CabInfo table. Create the table 'CabInfo' with necessary validations. (15)

OR

5. a) Write short notes on :

   i. RMI

   ii. Hibernate

   iii. EJB

   iv. Connection Pooling. (10)

   b) Write a program using servlet that accepts a five digit number from the user and displays the product of the digits. (5)