B. C. A. (Sem. V) (CBCS) Examination

October / November – 2016

CS-25 : Advance Java Programming (J2EE) (BCA)

Faculty Code : 003
Subject Code : 003507

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

1 Objective type questions :   **20**

(1) What is J2EE platform ?

(2) Differentiate between thick and thin client.

(3) List out various data type in JDBC.

(4) Explain use of DatabaseMetaData interface.

(5) Write down tasks of stub.

(6) Write down the steps of RMI application executed.

(7) What is servlet?

(8) Draw the figure of servlet architecture.

(9) Write down the syntax of forward action element.

(10) What is main difference between servlet and JSP ?

(11) Write down the syntax of <JSP:useBean> tag.

(12) How to working MVC architecture ?

(13) What is key difference between RMI v/s EJB ?

(14) What is Entity Bean ?

(15) Write down the full form of HQL.

(16) List out sequence of layers in Hibernate architecture.

(17) Explain spring IoC.

(18) What is use of FormBean in structs ?

(19) List out basic components of struts framework.

(20) Explain brief spring context.

2 (a) Answer the following question : (any **three**)   **6**

    (1) Explain n-tire architecture.

    (2) Explain ResultSetMetaData class.

    (3) What is RMI ?

    (4) Explain URL rewriting.

    (5) Explain page directive tag.

    (6) What is JavaBean ?

(b) Answer the following questions : (any **three**)   **9**

    (1) Explain Timer service.

    (2) Explain benefits of EJB.

    (3) Explain need of hibernate.

    (4) Explain structs redisplay input FormBeans.

    (5) Explain hibernate configuration file.

    (6) Explain type of web container.

(c) Answer the following question : (any **two**)   **10**

    (1) Write an program to insert and display operation of student table using PreparedStatement interface. Student table fields :roll no., name, gender, standard and hobbies.

    (2) Write a RMI program to given number is factorial number or not.

    (3) Create a Servlet application for display employee information, Employee id, name, Basic salary design file in HTML file. Print Employee id, name, Basic salary, DA, HRA, GS in Servlet file. DA as 5% of Basic Salary [DA mean Dearness Allowance] HRA as 7% of Basic Salary [HRA mean House Rent Allowance] GS=BS+DA+HRA [GS mean Gross Salary]

    (4) Explain scripting element of JSP with example.

    (5) Explain JDBC with JSP with example.

3 (a) Answer the following questions : (any **three**)   **6**

     (1) Explain JDBC type-1 driver.

     (2) Differentiate between include driver tag and include action tag.

     (3) Explain disadvantage of hibernate.

     (4) Explain send Redirect( ) method of JSP.

     (5) What is hibernate inheritance ?

     (6) What is structs?

(b) Answer the following questions : (any **three**)   **9**

     (1) Explain lifecycle of Servlet.

     (2) What is requirement of hibernate ?

     (3) Explain <JSP:plugin> action element of JSP with example.

     (4) Explain spring and MVC.

     (5) Differentiate between session v/s cookie of JSP.

     (6) Explain servlet collaboration with example.

(c) Answer the following questions : (any **two**)   **10**

     (1) Explain hibernate annotation with example.

     (2) Explain spring framework architecture.

     (3) Explain AOP concept in detail.

     (4) Explain structs flow of control.

     (5) Write a hibernate application to demonstrate table per class hierarchy inheritance.

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