



**MAJ-003-003507**

Seat No. \_\_\_\_\_

**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 struts ?
- (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 struts flow of control.
- (5) Write a hibernate application to demonstrate table per class hierarchy inheritance.

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