



**RN-003-003507**

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

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

**February - 2019**

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

**Faculty Code : 003**

**Subject Code : 003507**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

1 Fill in the blanks and answer the following questions : 20

- (1) In 2 tier architecture with thin client Application, the \_\_\_\_\_ is only at the client tier.
- (2) To determine the contents of a MIME message \_\_\_\_\_ API is used.
- (3) Which of the rmic version generate only stub, not a skeleton ?
- (4) JDBC-ODBC bridge is type \_\_\_\_\_ driver.
- (5) Which packages contain the JDBC classes ?
- (6) Which method is used to call stored procedure from the database?
- (7) What is the name of deployment descriptor file in servlet?
- (8) doGet() and doPost() methods are called via \_\_\_\_\_.
- (9) List out the methods of servlet life cycle.
- (10) Cookie were invented by \_\_\_\_\_.
- (11) Write down the syntax of getSession method.
- (12) ORM stands for \_\_\_\_\_.
- (13) Which symbol is used to define annotation in POJO class?
- (14) POJO class object is also known as \_\_\_\_\_ object.
- (15) Hibernate.cfg.xml is a \_\_\_\_\_ file.
- (16) Who is the developer of spring Framework?

- (17) In Spring, Application context is \_\_\_\_\_.
- (18) \_\_\_\_\_ is a set of joint point where advice should be run.
- (19) In struts, Result is prepared by the \_\_\_\_\_ and returns the result to user.
- (20) The struts project was introduced in \_\_\_\_\_ by \_\_\_\_\_.

**2** (A) Answer the following questions : (Any **Three**) **6**

- (1) Explain 2-tier architecture in brief.
- (2) Give full form of EJB and JMS.
- (3) Explain commit() and rollback() methods of connection interface.
- (4) Write note on type-4 driver.
- (5) Define task of stub and Skeleton.
- (6) Explain forName() method with example segment.

(B) Attempt any **three**. **9**

- (1) Explain data types in JDBC.
- (2) Explain prepared statement with example segment.
- (3) Explain callable statement with example segment.
- (4) Explain RMI Architecture with its figure.
- (5) Write note on Cookie.
- (6) Explain following methods with syntax and example statement in brief :
  - (A) executeUpdate()
  - (B) getConnection()
  - (C) afterLast()

- (C) Answer the following questions : (Any **Two**) **10**
- (1) What is metadata? Explain Database MetaData interface with its methods.
  - (2) What is servlet? Explain life cycle of servlet.
  - (3) How to track session? Explain HttpSession interface with example.
  - (4) Explain including and forwarding from JSP page.
  - (5) Explain scriptlets and declaration scripting elements of JSP with example segment.
- 3** (A) Answer the following questions : (Any **Three**) **6**
- (1) Explain taglib directive.
  - (2) Discuss any two implicit object of JSP.
  - (3) Explain <jsp:useBean> tag.
  - (4) Write short note on entity bean.
  - (5) Differentiate: Stateful Session bean V/s Stateless Session bean.
  - (6) Explain setPropertyName() and getPropertyName() of java beans.
- (B) Attempt any **three**. **9**
- (1) Explain MVC architecture.
  - (2) What is EJB? Explain advantages of EJB.
  - (3) What is Hibernate? Write down advantages and disadvantages of hibernate.
  - (4) Write down benefits of spring framework.
  - (5) Differentiate: JDBC V/s Hibernate.
  - (6) Write down features of struts 2 framework.
- (C) Attempt any **two**. **10**
- (1) Explain hibernate annotation with example program.
  - (2) Explain spring framework architecture with its figure.
  - (3) Explain AOP concept in detail.
  - (4) Explain struts flow of control in detail.
  - (5) Write a hibernate application to demonstrate table per concrete class hierarchy inheritance.