JV-003-0003507   Seat No. _____

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

October – 2019

CS - 25 : Advance Java Programming (J2EE)

Faculty Code : 003

Subject Code : 0003507

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

1 **(a)** Answer the following questions :   **4**

   (1) JNDI Stands for _____.

   (2) What is JDBC ?

   (3) Container provides communication platform between _____ and _____.

   (4) _____ method is used to send precompiled query to the database.

   (b) Attempt any one out of two from the following :   **2**

   (1) Explain Callable Statement with example.

   (2) Explain ResultSetMetaData.

   (c) Attempt any one out of two from the following :   **3**

   (1) Explain Prepared Statement.

   (2) Explain JDBC Driver types.

   (d) Attempt any one out of two from the following :   **5**

   (1) Explain J2EE APIs.

   (2) Explain Architecture of J2EE.

2 **(a)** Answer the following questions :   **4**

   (1) Give the full form of RMI.

   (2) _____ is the server side proxy of the remote object.

   (3) _____ method is used in URL rewriting.

   (4) Which method returns current session ?

   (b) Attempt any one out of two from the following :   **2**

   (1) Explain Stub Class.

   (2) Explain Servlet Collaboration.

(c) Attempt any one out of two from the following : 3
(1) Explain RMI architecture.
(2) Explain Servlet API.
(d) Attempt any one out of two from the following : 5
(1) Explain life cycle of servlet.
(2) Write a note on Session Tracking Approaches.

3 (a) Answer the following questions : 4
(1) JSP Stands for _____.
(2) List out JSP Elements.
(3) What is use of taglib directive ?
(4) List out scope of the JSP objects.
(b) Attempt any one out of two from the following: 2
(1) Explain page Directive.
(2) Explain JavaBean Properties.
(c) Attempt any one out of two from the following : 3
(1) Explain Action Elements of JSP.
(2) Differentiate : JSP Vs Servlet.
(d) Attempt any one out of two from the following : 5
(1) Explain life cycle of JSP.
(2) Explain Scripting Elements of JSP.

4 (a) Answer the following questions : 4
(1) What is EJB ?
(2) _____ is name of hibernate XML configuration file.
(3) _____ is the name of Hibernates own query language.
(4) List out layers in Hibernate architecture.
(b) Attempt any one out of two from the following : 2
(1) Explain features of hibernate.
(2) Explain Hibernate Configuration file.
(c) Attempt any one out of two from the following : 3
(1) Explain types of EJB.
(2) Explain Hibernate Sessions.
(d) Attempt any one out of two from the following : 5
(1) Explain hibernate annotation.
(2) Explain in brief MVC architecture.

5 (a) Answer the following questions :   **4**

    (1) Write a full form of IoC.

    (2) Write a full form of AOP.

    (3) Write a full form of MVC.

    (4) Action class in the struts application is used to handle _____.

(b) Attempt any one out of two from the following :   **2**

    (1) What is Struts ?

    (2) Explain IoC in Spring.

(c) Attempt any one out of two from the following :   **3**

    (1) Explain Spring and MVC.

    (2) Explain AOP.

(d) Attempt any one out of two from the following :   **5**

    (1) Explain Struts flow of control.

    (2) Explain Spring Architecture.

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