B. C. A. (Sem. V) (CBCS) (W.E.F. 2016) Examination

June - 2022

Advance Java Programming (J2EE) : CS-25

(Old Course)

Faculty Code : 003

Subject Code : 0003507

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

Instructions : (1) Attempt Any Five Questions

1	(a)	Answer the following questions :	**4**
		(1) EJB Stands for ?	
		(2) DSN Stands for ?	
		(3) Which Methods Use to get DatabaseMetaData Object ?	
		(4) Which Method is use to Register JDBC Driver ?	
	(b)	Answer in brief.	**2**
		(1) What is WebContainer ?	
	(c)	Answer in detail.	**3**
		(1) Explain J2EE APIs.	
	(d)	Answer in detail.	**5**
		(1) Explain J2EE Architecture.	
2	(a)	Answer the following questions.	**4**
		(1) JSF Stands for ?	
		(2) Which Packages Contains JDBC Classes ?	
		(3) Which method is used to perform DML statements in JDBC ?	
		(4) Stored procedure can be called by using which statement ?	
	(b)	Answer in brief :	**2**
		(1) Explain ResultSetMetaData.	
	(c)	Answer in brief :	**3**
		(1) Explain Types of JDBC Drivers.	
	(d)	Answer in detail.	**5**
		(1) Explain DataBaseMetaData with suitable example.	

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

           (1)   _____ takes path of the communication or layer between client & server.

           (2)   _____ layer is responsible for listening to the remote methods calls made by client and redirecting them to the server.

           (3)   _____ are small bits of textual information that a Web Server sends to a browser and that the browser later returns unchanged when visiting the same Web site or domain.

           (4)   _____ defines mappings between URL paths and the servlets that handle requests with those paths.

   (b)   Answer in brief :   **2**

           (1)   Explain Skeleton Class

   (c)   Answer in brief :   **3**

           (1)   Explain lookup() and rebind() method of RMI.

   (d)   Answer in detail :   **5**

           (1)   What is RMI ? Explain RMI Architecture.

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

           (1)   _____ is an interface between proxy layer and Transport layer.

           (2)   _____ returns name of the remote object specified by the RMI URL.

           (3)   _____ provides the methods for handling HTTP request and HTTP response.

           (4)   The component can include in the html form a field that is not displayed on the form. This field is called _____

   (b)   Answer in brief :   **2**

           (1)   Explain URL rewriting.

   (c)   Answer in detail :   **3**

           (1)   Explain Servlet Architecture.

   (d)   Answer in detail :   **5**

           (1)   Explain HTTPServlet class with Suitable Example.

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

           (1)   JSP are built by _____.

           (2)   _____ are block of java code with the JPS page.

           (3)   Which role in EJB Architecture is responsible for EJB server ?

           (4)   Which part of multi-tier enterprise application contains EJB Components ?

(b) Answer in brief : 2
(1) Explain types of Session Beans
(c) Answer in detail : 3
Explain Scripting Elements
(d) Answer in detail : 5
(1) Demonstrate JDBC with JSP to Insert Data in Below Table in JSP Page.

Data Name	Varmora_tiles
Table Name	Product_master
Fields:	Prod_id Prod_name Size Description Price

6 (a) Answer the following questions : 4
(1) JSP stands for ?
(2) _____ Elements are used to write java code with the JSP file.
(3) Which of the EJB type has no remote interface ?
(4) Which of the format for EJB deployment descriptor files ?
(b) Answer in brief : 2
(1) Explain errorpage attribute of Page Directive.
(c) Answer in detail : 3
(1) Explain JSP Architecture.
(d) Answer in detail : 5
(1) Explain Cookie and Session in JSP with Suitable Example.

7 (a) Answer the following questions : 4
(1) The _____ is responsible for managing the data of the application in MVC
(2) JTA stands for ?
(3) JNDI stands for ?
(4) _____ powerful, high-performance Object Relational Persistence and Query service for any Java Application.
(b) Answer in brief : 2
(1) Explain Entity beans
(c) Answer in detail : 3
(1) Explain Timer Service
(d) Answer in detail : 5
(1) What is Hibernate ? Explain Hibernate Architecture.

8 (a) Answer the following :   **4**
    (1) HQL stands for ?
    (2) POJO stands for ?
    (3) The _____ annotation allows you to specify the details of the table that will be used to persist the entity in the database.
    (4) _____ beans are persistent allow shared access, have primary keys, and can participate in relationships with other entity beans.

    (b) Answer in brief :   **2**
    (1) Explain Disadvantages of Hibernate.

    (c) Answer in detail :   **3**
    (1) Explain Hibernate Annotation.

    (d) Answer in detail :   **5**
    (1) Explain in Brief MVC Architecture.

9 (a) Answer the following questions :   **4**
    (1) Which are the modules of web layer in spring Framework ?
    (2) What is Bean in Spring ?
    (3) What is ActionInvocation in Struts ?
    (4) What is OGNL ?

    (b) Answer in brief :   **2**
    (1) What is Struts ?

    (c) Answer in detail :   **3**
    (1) Explain Struts Basic Flow

    (d) Answer in detail :   **5**
    (1) Explain Spring Framework Architecture.

10 (a) Answer the following questions :   **4**
    (1) Who wrote the spring Framework ?
    (2) What is spring Framework ?
    (3) Struts Framework is Based on ?
    (4) What is interceptor in struts ?

    (b) Answer in brief :   **2**
    (1) What is Spring Context ?

    (c) Answer in detail :   **3**
    (1) Explain AOP.

    (d) Answer in detail :   **5**
    (1) Explain Struts Framework Architecture.