DBJ-003-2035001   Seat No. _____

B. C. A. (Sem. V) (W.E.F. 2019) Examination

June - 2022

Advance Java Programming (J2EE) : CS-25

(General Option)

Faculty Code : 003
Subject Code : 2035001

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

Instruction : Attempt any 5 out of 10 questions.

1 (a) Answer the following questions :   **4**
      (1) JDBC-ODBC bridge is type _____ driver.
      (2) JNDI stands for _____.
      (3) JSF stands for _____.
      (4) JDBC stands for _____.
  (b) Explain N-tier architecture.   **2**
  (c) Explain Prepared Statement   **3**
  (d) Develop code to perform Insert, Update and Delete operation **5**
      in oracle table

2 (a) Answer the following :   **4**
      (1) _____ method is used to load a database
          driver in JDBC
      (2) EIS stands for _____
      (3) API stands for _____
      (4) JMS stands for _____
  (b) Explain Data types in JDBC answer in brief.   **2**
  (c) Explain Database Metadata in detail.   **3**
  (d) Write a note on JDBC architecture.   **5**

3 (a) Answer the following   **4**
      (1) RMI stands for _____
      (2) HTTP stands for _____
      (3) DD stands for _____
      (4) doGet() and doPost() methods are called via _____

	(b)	Explain Stub and Skeleton.	2
	(c)	Explain Servlet architecture.	3
	(d)	Develop code to perform Insert, update and Delete operation on "Emp" table using servlet.	5

4 (a) Answer the following : **4**
   (1) RPC stands for _____
   (2) RRL stands for _____
   (3) Context parameters are set in _____ file.
   (4) _____ interface to ensure that servlet can handle only one request at a time.

   (b) Explain URL Rewriting. **2**
   (c) Explain, how to read initialization parameter in servlet. **3**
   (d) Develop code to read all the input form fields using request and enumeration object. **5**

5 (a) Answer the following : **4**
   (1) JSP stands for _____
   (2) TagLib stands for _____
   (3) _____ is used to load applet in JSP.
   (4) Which attributes of page directive is used to indicate error page ?

   (b) Explain scriplet in JSP. **2**
   (c) Servlet Vs JSP **3**
   (d) Develop code to demonstrate Java Bean properties and methods. **5**

6 (a) Answer the following : **4**
   (1) _____ is invoked when the JSP is initialized.
   (2) Filters are defined in the _____ file.
   (3) How many implicit objects are there in JSP ?
   (4) JSP is released in which year ?

   (b) Explain JSP : Include. **2**
   (c) Explain JSP implicit objects in detail. **3**
   (d) Develop JSP code to Insert and Display all records in "Emp" table using MySQL. **5**

7 (a) Answer the following : **4**
   (1) ORM stands for _____
   (2) EJB stands for _____
   (3) What is Annotation ?
   (4) POJO stands for _____ .

	(b)	Explain Need of Hibernate in brief.	2
	(c)	Explain Hibernate configuration file in detail.	3
	(d)	What is Hibernate ? Write down advantage and disadvantage of hibernate.	5

8 (a) Answer the following :   4
  (1) JPA stands for _____
  (2) CRUD stands for _____
  (3) HQL stands for _____
  (4) MVC stands for _____

(b) Explain Types of EJB in brief ?   2

(c) Stateful Session bean Vs Stateless Session bean.   3

(d) Explain MVC architecture in detail.   5

9 (a) Answer the following :   4
  (1) Ioc stands for _____.
  (2) DI stands for _____
  (3) AOP stands for _____
  (4) EL stands for _____

(b) Explain Inversion of Control.   2

(c) Write down benefits of Spring Framework.   3

(d) Explain AOP concept in detail.   5

10 (a) Answer the following :   4
  (1) JDBC, ORM, OXM, JMS, etc belongs to _____ module of spring framework.
  (2) Beans, Core, Context, EL, etc belongs to _____ module of spring framework.
  (3) DI was originally called _____
  (4) _____ enables the modularization of concerns.

(b) How to process a request in struts ?   2

(c) Write down features of struts 2 frameworks.   3

(d) Write a note on Spring Framework Architecture.   5

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