Time : 2.5Hours]   [Total Marks : 70

1 **(A)** Answer the following: 4

1   _____implement the defined interfaces in the JDBC API, for interacting with your database server

2   Full form of JNDI is____

3   MySQL's Connector/J driver is a Type____driver.

4   Full form of ODBC_____

(B) Answer in brief (Any one out of two)   2

1   What is Type-3 Driver?

2   Explain J2EE design framework

(C) Answer in detail (Any one out of two)   3

1   Explain JDBC Result Set in detail.

2   Explain Callable statement with example.

(D) Write a note on (Any one out of two)   5

1   Explain the JDBC-MySQL connectivity stepwise in detail with example

2   Explain J2EE Architecture with its features.

2 **(A)** Answer the following: 4

1   ____file is known as a deployment descriptor.

2   doGet() and doPost() methods are called via_____

3   RMI stands for_____

4   Full form of RRL_____

(B) Answer in brief (Any one out of two)   2

1   Write a note on Stub and Skeleton

2   What is a Servlet?

(C) Answer in detail (Any out of two) 3
1 Explain Request Dispatcher interface with example
2 Explain RMI Architecture in detail.

(D) Write a note on (Any one out of two) 5
1 Write a servlet code to indicate page counter or the number of times user has visited the page
2 Explain Life Cycle of Servlet with example

3 (A) Answer the following: 4
1 ___tag allows to write Java code into JSP file.
2 Full form of JSP is__
3 Give the syntax of page directive elements.
4 What is JavaBeans?

(B) Answer in brief (Any one out of two) 2
1 Explain Scripting Elements
2 Define:JSP Implicit Objects

(C) Answer in detail (Any one out of two) 3
1 Differentiate: Servlet v/s JSP
2 List and explain JSP Action Elements

(D) Write a note on (Any one out of two) 5
1 Write a code for insert, update, delete and display in jsp with mysql database Table Field of id, name, age.
2 Explain Life Cycle of JSP with its methods.

4 (A) Answer the following: 4
1 POJO stand for_____
2 Give the full form of JTA.
3 ORM stands for____
4 ___ is the name of Hibernate own query language.

(B) Answer in brief (Any one out of two) 2
1 Give advantage and disadvantage of Hibernate.
2 Define the term MVC with example.

(C) Answer in detail (Any one out of two) 3
1 Explain EJB in detail.

2

2   Explain hibernate configuration file and mapping file with example.

(D) Write a note on (Any one out of two)   5
1   Explain Hibernate Architecture in detail
2   Explain the Hibernate inheritance in detail with example.

5   (A) Answer the following: 4
1   Full form of AOP is____
2   Full form of IOC is____
3   Full Form of DI_____
4   Pointcut is a set of____where advice should be run

(B) Answer In brief (Any one out of two)   2
1   Whar is Struts?
2   Explain AOP terminology

(C) Answer in detail (Any one out of two)   3
1   Write a note on the Properties File in a Struts application
2   Explain Spring MVC with suitable example

(D) Write a note on (Any one out of two)   5
1   Explain Struts Flow of Control.
2   Explain Spring Architecture in detail.