SUBJECT : CS-25 Advanced Java Programing (J2EE)                                    DATE :
TIME :                                                                             MARKS : 70

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Q.-1
   a) Answer the following questions                                               [4]
      1 JNDI Stands for _____
      2 What is container?
      3 What is JDBC?
      4 _____ method is used send precompiled query to the database.
   b) Attempt any one out of two from the following                               [2]
      1 Explain DatabaseMetadata
      2 List out J2EE APIs.
   c) Attempt any one out of two from the following                               [3]
      1 Explain JDBC driver types.
      2 Write steps to connect database using JDBC with Java application.
   d) Attempt any one out of two from the following                               [5]
      1 Explain JDBC Architecture.
      2 Explain J2EE Architecture.

Q.-2
   a) Answer the following questions                                               [4]
      1 RMI stands for _____
      2 _____ is the server-side proxy of the remote object.
      3 RRL stands for _____
      4 What is deployment descriptor?
   b) Attempt any one out of two from the following                               [2]
      1 List out Servlet APIs.
      2 Explain Servlet Collaboration.
   c) Attempt any one out of two from the following                               [3]
      1 Explain Stub and Skeleton.
      2 Explain URL Rewriting and Session.
   d) Attempt any one out of two from the following                               [5]
      1 Explain RMI Architecture.
      2 Explain Servlet life cycle.

Q.-3
   a) Answer the following questions                                               [4]
      1 What is use of taglib directives.
      2 List out JSP implicit objects.
      3 List out action elements.
      4 What is Cookies?
   b) Attempt any one out of two from the following                               [2]
      1 Explain scope of JSP objects
      2 Explain Include and Forward action
   c) Attempt any one out of two from the following                               [3]
      1 Explain scripting elements.
      2 Explain JavaBeans.

d) Attempt any one out of two from the following                                                    [5]
    1 Explain JSP Life Cycle.
    2 Explain JSP Architecture.

Q.-4
  a) Answer the following questions                                                            [4]
    1 MVC stands for _____
    2 EJB stands for _____
    3 JPA stands for _____
    4 Explain Hibernate Inheritance.
  b) Attempt any one out of two from the following                                             [2]
    1 Explain hibernate config file.
    2 Explain hibernate mapping file.
  c) Attempt any one out of two from the following                                             [3]
    1 Explain features of Hibernate.
    2 What is EJB? Explain types of EJB.
  d) Attempt any one out of two from the following                                             [5]
    1 Explain MVC Architecture.
    2 Explain Hibernate Architecture.

Q.-5
  a) Answer the following questions                                                            [4]
    1 POJO stands for _____.
    2 IOC stands for _____.
    3 What is Struts?
    4 _____ is a framework of frameworks.
  b) Attempt any one out of two from the following                                             [2]
    1 What is Dependency Injection?
    2 Explain AOP.
  c) Attempt any one out of two from the following                                             [3]
    1 Explain ActionForm and Action object of Struts.
    2 Explain IOC Containers.
  d) Attempt any one out of two from the following                                             [5]
    1 Explain Spring architecture.
    2 Explain Struts flow of control.