MAI-003-0003507-N   Seat No. _____

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

December - 2020

Advance Java Programming (J2EE) : CS - 25

Faculty Code : 003

Subject Code : 0003507-N

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

Instruction : Attempt any five questions out of ten.

1   (A) Give appropriate answers for the following questions :   4

(1)   Give full form of J2EE

(2)   Give full form of ODBC

(3)   What is the name of type -1 driver?

(4)   Give full form of JDBC

(B) Explain thin client and thick client in brief.   2

(C) Explain PreparedStatement with example segment.   3

(D) How to call stored procedure? Explain with example.   5

2   (A) Give appropriate answers for the following questions :   4

(1)   What is the name of type -4 drivers?

(2)   Give full form of API

(3)   getColumnCount() return _____.

(4)   In 2 tier architecture with thin client Application, the _____ is only at the client tier.

(B) Explain Three-tier architecture in brief.   2

(C) How to insert record in table using statement interface?   3
      Explain with example segment.

(D) How to connect data base? Explain with example segment.   5

3   (A) Give appropriate answers for the following questions :   4
         (1) Rmic version - v 1.1 generate _____.
         (2) doGet() and doPost() methods are called via _____.
         (3) Cookie were invented by _____.
         (4) Write down the syntax of getSession() method.
     (B) Define task of stub and Skeleton :   2
     (C) How to read initialization parameter in Servlet? Explain   3
     (D) What is Servlet? Explain life cycle of servlet.   5

4   (A) Give appropriate answers for the following questions.   4
         (1) JMS stands for _____
         (2) Give full form of GMT
         (3) Session ID is obtain by _____ method.
         (4) Which session tracking approaches use token passing?
     (B) Explain include() method of RequestDispatcher   2
     (C) What is a cookie? Explain in brief   3
     (D) How to create Servlet using Servlet interface? Explain   5
         with example.

5   (A) Give appropriate answers for the following question   4
         (1) Give the full form of JSP
         (2) errorPage attributes of page directive are used to
             _____
         (3) List out scope of JSP object
         (4) A bean consist of _____, _____ and _____
     (B) Explain any two attributes of page directive   2
     (C) Discuss any three implicit object of JSP   3
     (D) Explain all scripting elements of JSP with example   5
         segment.

6   (A) Give appropriate answers for the following question   4
         (1) Write down syntax of <jsp:forword>
         (2) In MIME, I stand for _____.
         (3) The object can be accessed from any pages has
             _____ scope.
         (4) The accessor and mutator methods are also known as
             _____.

(B)   What is template data in JSP? Explain.   2

(C)   Differentiate - Servlet V/s JSP.   3

(D)   Explain JSP life cycle in details with its figure.   5

7   (A)   Give appropriate answers for the following questions :   4

         (1)   EJB Stands for   .

         (2)   MDB Stands for   .

         (3)   Give full form of POJO.

         (4)   The object of _____ class is also known as persistent object

      (B)   Explain @Id and @Entity Hibernate annotation.   2

      (C)   Differentiate Stateful Session bean V/s Stateless Session   3
            bean.

      (D)   What is Hibernate? Discuss advantage and disadvantage of   5
            hibernate.

8   (A)   Give appropriate answers for the following questions :   4

         (1)   Which bean is used to persist data into a secondary
               storage such as database?

         (2)   Which session bean does not hold a conversational
               state for client?

         (3)   In ORM M stands for _____.

         (4)   Session object is used to get a _____ connection
               with database in hibernate.

      (B)   Explain advantages of EJB.   2

      (C)   Explain saveOrUpdate() and getIdentifier() methods.   3

      (D)   Write a hibernate application to demonstrate table per   5
            class hierarchy inheritance.

9   (A)   Give appropriate answers for the following questions.   4

         (1)   Who is the developer of spring framework?

         (2)   Who is the developer of struts framework?

         (3)   AOP stands for _____.

         (4)   List out types of AOP Advice.

(B) Give definition of spring context. 2

(C) Write note on inversion of control. 3

(D) Explain AOP concepts in details. 5

10 (A) Give appropriate answers for the following questions : 4
    (1) In Spring, Application context is _____.
    (2) Point cut is a set of _____ where advice should be run.
    (3) What is the full form of IoC?
    (4) What is the full form of DI?

(B) Create spring application to print Hello World message. 2

(C) Explain spring architecture in brief. 3

(D) Write down advantage of struts properties files. 5