



**MAI-003-0003507-N**

Seat No. 00000

**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 with example. 5
- ✓ 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 segment. 5
- 6 (A) Give appropriate answers for the following question 4
- (1) Write down syntax of <jsp:forward>
  - (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 bean. 3
- (D) What is Hibernate? Discuss advantage and disadvantage of hibernate. 5
- 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 EJE. 2
- (C) Explain saveOrUpdate() and getIdentifier() methods. 3
- (D) Write a hibernate application to demonstrate table per class hierarchy inheritance. 5
- 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
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