



SAD-003-2035001

Seat No. _____

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

Examination

November - 2021

CS - 25 : Advance Java Programming (J2EE)

(New Course)

Faculty Code : 003

Subject Code : 2035001

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instruction : Attempt any five questions.

- 1 (A) Answer the following questions : 4
- (1) SOAP stands for ?
 - (2) JMS stands for ?
 - (3) Who converts the Java data type to the appropriate JDBC type before sending it to the database ?
 - (4) What is the first step of JDBC Process ?
- (B) Answer in brief : 2
- Explain JavaMail.
- (C) Answer in detail : 3
- Explain Enterprise Architecture of J2EE.
- (D) Answer in detail : 5
- What are Enterprise Architecture Styles ? Explain in detail.
- 2 (A) Answer the following questions : 4
- (1) JNDI stands for ?
 - (2) Who developed Tomcat ?
 - (3) Which Statement used for precompiling SQL statements that might contain input parameters.
 - (4) ASF Stands for ?
- (B) Answer in brief : 2
- Explain DatabaseMetaData.
- (C) Answer in detail : 3
- Explain Types of JDBC Drivers.
- (D) Answer in detail : 5
- What is JDBC ? Explain JDBC Architecture.

- 3 (A) Answer the following questions : 4
- (1) RMI stands for ?
 - (2) _____ defines how the client request to the server for the remote objects and how the server processes for that request.
 - (3) _____ is used to get the initialization parameter in servlet.
 - (4) Which exception indicates that a servlet problem has been occurred ?
- (B) Answer in brief : 2
Explain Stub class.
- (C) Answer in detail : 3
Explain lookup() and rebind() method of RMI.
- (D) Answer in detail : 5
What is RMI ? Explain RMI Architecture.
- 4 (A) Answer the following questions : 4
- (1) Which technology which allows the client to Remote object communication and object to object communication between different JVM ?
 - (2) _____ is server Side proxy that communicates with the stub.
 - (3) _____ Package contains the generic interface and classes that are implemented & extended by all servlets.
 - (4) _____ Returns a PrintWriter that can be used to write character data to the response.
- (B) Answer in brief : 2
Explain Deployment Descriptor.
- (C) Answer in detail : 3
Explain Servlet Life Cycle.
- (D) Answer in detail : 5
Explain Session Tracking Approaches.
- 5 (A) Answer the following questions : 4
- (1) _____ method is called when the JSP servlet instance is destroyed from the web container.
 - (2) _____ Directive declares that the JSP file uses custom tags.
 - (3) Which of the property of java bean represent a single value ?
 - (4) Which EJB uses EJB-QL for query operation ?

- (B) Answer in brief : 2
Which are the scope of JSP variables ?
- (C) Answer in detail : 3
Explain Error Handling and Exception Handling Ways in JSP Page.
- (D) Answer in detail : 5
Explain JSP Elements in details.

- 6 (A) Answer the following questions : 4
- (1) _____ directive is used to include the static page and dynamic pages with the other JSP pages.
 - (2) _____ enables you to write standard HTML pages containing tags that run powerful programs based on Java Technology.
 - (3) Which methods use accessing the properties of JavaBeans components ?
 - (4) Which is not a valid scope of java bean in JSP ?
- (B) Answer in brief : 2
Explain JSP implicit Objects.
- (C) Answer in detail : 3
Explain JSP Architecture.
- (D) Answer in detail : 5
Demonstrate JDBC with JSP to View Below Table Data in Jsp Page.

Database Name	:	Varmora_tiles
Table Name	:	product_master
Fields	:	Prod_id
		Prod_name
		Size
		Description
		Price

- 7 (A) Answer the following questions : 4
- (1) JPA stands for ?
 - (2) JNDI stands for ?
 - (3) The _____ annotation is used to specify the details of the column.
 - (4) ORM stands for ?
- (B) Answer in brief : 2
Explain features of Hibernate.
- (C) Answer in detail : 3
Explain Hibernate Session.
- (D) Answer in detail : 5
Explain in brief MVC Architecture.

- 8 (A) Answer the following questions : 4
- (1) MVC stands for ?
 - (2) A _____ bean is an enterprise bean that allows J2EE applications to process messages asynchronously.
 - (3) _____ powerful, high-performance Object Relational Persistence and Query service for any Java Application.
 - (4) JTA stands for ?
- (B) Answer in brief : 2
Explain Message Driven Beans.
- (C) Answer in detail : 3
Explain Timer Service.
- (D) Answer in detail : 5
What is Hibernate ? Explain Hibernate Architecture.
- 9 (A) Answer the following questions : 4
- (1) What is DI ?
 - (2) What are the types of IOC container in spring ?
 - (3) Which files is used by controller to get mapping information for request routing ?
 - (4) Who Created Struts Framework ?
- (B) Answer in brief : 2
What is Spring Context ?
- (C) Answer in detail : 3
Explain AOP.
- (D) Answer in detail : 5
Explain Struts Framework Architecture.
- 10 (A) Answer the following questions : 4
- (1) AOP stands for ?
 - (2) IOC stands for ?
 - (3) What is Default Result Type in Struts ?
 - (4) OGNL stands for ?
- (B) Answer in brief : 2
What is Struts ?
- (C) Answer in detail : 3
Explain Struts Basic Flow.
- (D) Answer in detail : 5
Explain Spring Framework Architecture.