

B.C.A Semester - 5 (CBCS) Examination**Oct/Nov. - 2021(Old Course)****CS-25 ADVANCE JAVA PROGRAMMING (J2EE) (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1(A) **Answer the following questions** (04)
1. What is J2EE?
 2. ODBC stands for _____.
 3. JDBC stands for _____.
 4. _____ class holds the list of all registered database drivers, which are used for Connection.
- Q.1(B) **Answer the following questions (ANY ONE)** (02)
1. List out java Enterprise Architecture Styles.
 2. Explain JDBC data types.
- Q.1(C) **Answer the following questions (ANY ONE)** (03)
1. Explain JDBC architecture.
 2. What is Container? Explain types of J2EE Containers.
- Q.1(D) **Answer the following questions (ANY ONE)** (05)
1. Explain different types of JDBC drivers.
 2. Explain various J2EE APIs in brief.
- Q.2(A) **Answer the following questions** (04)
1. What is RMI?
 2. What is servlet?
 3. An object on another computer's JVM is known as _____.
 4. _____ method is used to identify Remote Object from RMI registry.
- Q.2(B) **Answer the following questions (ANY ONE)** (02)
1. What is Skeleton class of RMI?
 2. What is Stub class of RMI?
- Q.2(C) **Answer the following questions (ANY ONE)** (03)
1. Explain Servlet Collaboration.
 2. Explain Session Tracking Approaches.
- Q.2(D) **Answer the following questions (ANY ONE)** (05)
1. Explain Servlet Life cycle.
 2. Explain Servlet with JDBC.
- Q.3(A) **Answer the following questions** (04)
1. What is Java Bean?
 2. Which tag in the JSP is used to define the error page?
 3. List-out JSP scopes.
 4. `<% @ ... %>` this JSP notation used for _____.
- Q.3(B) **Answer the following questions (ANY ONE)** (02)
1. Explain Directive elements of JSP.
 2. Explain `<jsp:useBean>` element.
- Q.3(C) **Answer the following questions (ANY ONE)** (03)
1. Explain Java Bean Packaging.
 2. Explain working with Cookies in JSP.

- Q.3(D) **Answer the following questions (ANY ONE)** (05)
1. Explain JSP life cycle.
 2. Explain JSP architecture.
- Q.4(A) **Answer the following questions** (04)
1. MVC stands for _____.
 2. ORM stands for _____.
 3. EJB stands for _____.
 4. _____ invented Hibernate framework.
- Q.4(B) **Answer the following questions (ANY ONE)** (02)
1. Define the role of Message-Driven bean.
 2. List-out type of EJB.
- Q.4(C) **Answer the following questions (ANY ONE)** (03)
1. What is annotation? Explain it.
 2. Explain Hibernate Configuration file.
- Q.4(D) **Answer the following questions (ANY ONE)** (05)
1. Explain features of Hibernate.
 2. Explain Hibernate Sessions.
- Q.5(A) **Answer the following questions** (04)
1. What are the components of Struts Framework?
 2. What is Spring framework?
 3. Is Struts is ORM based framework? YES or NO
 4. What is Struts?
- Q.5(B) **Answer the following questions (ANY ONE)** (02)
1. Explain Inversion of Control in Spring framework.
 2. Differentiate BeanFactory and ApplicationContext IoC containers.
- Q.5(C) **Answer the following questions (ANY ONE)** (03)
1. Explain Spring Architecture.
 2. Explain Struts flow of control.
- Q.5(D) **Answer the following questions (ANY ONE)** (05)
1. Explain Inversion of Control (IoC) in Spring.
 2. Explain Processing Requests with Action Objects.
