

B.Sc.(IT) Semester - 5 (CBCS) Examination
Oct/Nov - 2022 (NEW COURSE)
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 [3]
1. In JDBC PreparedStatement interface is used to call stored SQL procedure. Is it TRUE or FALSE?
 2. JDBC stands for _____.
 3. What is J2EE?
- (b) Answer the following questions (ANY TWO) [6]
1. Explain Thin and Thick client.
 2. Explain JDBC architecture.
 3. Explain N-Tier architecture.
 4. What is Container? Explain types of J2EE Containers.
- (c) Answer the following questions (ANY ONE) [5]
1. Explain different types of JDBC drivers.
 2. Explain various J2EE APIs in brief.
- Q-2 (a) Answer the following questions [3]
1. What is RMI?
 2. Client request processed through _____ method in servlet.
 3. An object on another computer's JVM is known as _____.
- (b) Answer the following questions (ANY TWO) [6]
1. Explain Servlet Collaboration.
 2. Explain Session Tracking Approaches.
 3. Explain the handling Servlet Requests and Responses.
 4. Explain Servlet Life cycle.
- (c) Answer the following questions (ANY ONE) [5]
1. What is servlet? Explain Architecture of a Servlet.
 2. Explain Stub and Skeleton of RMI.
- Q-3 (a) Answer the following questions [3]
1. What is Java Bean?
 2. Which tag in the JSP is used to define the error page?
 3. List-out JSP scopes.
- (b) Answer the following questions (ANY TWO) [6]
1. Explain page directive with example in JSP.
 2. Explain working with Session in JSP.
 3. Explain life cycle of JSP.
 4. Explain JavaBean properties.
- (c) Answer the following questions (ANY ONE) [5]
1. Explain Java Bean Packaging.
 2. Explain working with Cookies in JSP.

- Q-4 (a) Answer the following questions [3]
1. What is EJB?
 2. Define MVC.
 3. What is ORM?
- (b) Answer the following questions (ANY TWO) [6]
1. What is annotation? Explain it.
 2. Explain Hibernate Configuration file.
 3. Explain Session EJB.
 4. Explain message driven beans.
- (c) Answer the following questions (ANY ONE) [5]
1. Explain Hibernate Configuration file & mapping file.
 2. Explain Hibernate Architecture.
- Q-5 (a) Answer the following questions [3]
1. What is Struts?
 2. What are the components of Struts Framework?
 3. What is Spring framework?
- (b) Answer the following questions (ANY TWO) [6]
1. Explain Spring Architecture.
 2. Explain Inversion of Control (IoC) in Spring.
 3. Explain advantages of Struts framework.
 4. Explain Struts flow of control.
- (c) Answer the following questions (ANY ONE) [5]
1. Explain Processing Requests with Action Objects.
 2. Explain Handling Request Parameters with FormBeans.
