

B.C.A Semester - 5 (CBCS) Examination
Oct/Nov - 2021 (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 (03)
1. In JDBC Prepared Statement interface is used to call stored SQL procedure. Is it TRUE or FALSE?
 2. J2EE stands for _____.
 3. ODBC stands for _____.
- Q.1(B) Answer the following questions (ANY TWO) (06)
1. Explain N-Tier architecture.
 2. Explain Database Metadata interface.
 3. What is Container? Explain types of J2EE Containers.
 4. Explain Thin and Thick client.
- Q.1(C) Answer the following questions (ANY ONE) (05)
1. Explain JDBC architecture.
 2. Explain various J2EE APIs in brief.
- Q.2(A) Answer the following questions (03)
1. What is servlet?
 2. Client request processed through _____ method in servlet.
 3. An object on another computer's JVM is known as _____.
- Q.2(B) Answer the following questions (ANY TWO) (06)
1. Explain Architecture of a Servlet.
 2. Explain the handling Servlet Requests and Responses.
 3. Explain Stub and Skeleton.
 4. Explain Servlet Life cycle.
- Q.2(C) Answer the following questions (ANY ONE) (05)
1. Write a Servlet that sets visitor counter using Session. Counter will be increased each time page is refreshed.
 2. Explain Servlet with JDBC.
- Q.3(A) Answer the following questions (03)
1. What is Java Bean?
 2. List-out JSP scopes.
 3. List-out JSP scripting elements.
- Q.3(B) Answer the following questions (ANY TWO) (06)
1. Explain JSP architecture.
 2. Explain JSP action elements.
 3. Explain life cycle of JSP.
 4. Explain JavaBean properties
- Q.3(C) Answer the following questions (ANY ONE) (05)
1. Explain page directive with example in JSP.
 2. Explain working with Session in JSP.

- Q.4(A) Answer the following questions (03)
1. List-out types of EJB.
 2. Define MVC.
 3. What is ORM?
- Q.4(B) Answer the following questions (ANY TWO) (06)
1. Explain Session EJB.
 2. Explain message driven beans.
 3. Explain Hibernate Configuration file & mapping file.
 4. Explain Hibernate Sessions.
- Q.4(C) Answer the following questions (ANY ONE) (05)
1. Explain Hibernate Architecture.
 2. Explain Inheritance Annotations.
- Q.5(A) Answer the following questions (03)
1. Is Struts is ORM based framework? YES or NO
 2. What is Struts?
 3. What is Spring framework?
- Q.5(B) Answer the following questions (ANY TWO) (06)
1. Explain Inversion of Control (IoC) in Spring.
 2. Explain benefits of spring framework.
 3. Explain Handling Request Parameters with Form Beans.
 4. Explain Processing Requests with Action Objects.
- Q.5(C) Answer the following questions (ANY ONE) (05)
1. Explain advantages of Struts framework.
 2. Explain Spring Architecture.
