

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2023)
Application Development using Advance Java (Core (New-23))

Time: 2:30 Hours**Marks: 70****Instructions:**

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

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- Que.1(A) Answer the following questions (03)
1. What is Spring?
 2. What is JDBC?
 3. What is JSP?
- Que.1(B) Answer the following questions (ANY TWO) (06)
1. Explain SI Dependent Object with example.
 2. Write down steps of JDBC Connection.
 3. Explain CI with map.
 4. List Out the module of Spring Framework and explain any one.
- Que.1(C) Answer the following questions (ANY ONE) (05)
1. Explain JDBC Architecture.
 2. Explain SI with Collection.
- Que.2(A) Answer the following questions (03)
1. What is Spring Expression Language?
 2. What is Http Invoker?
 3. What is Spring JdbcTemplate?
- Que.2(B) Answer the following questions (ANY TWO) (06)
1. Explain Spring with JPA.
 2. Explain Hessian.
 3. Explain Burlap.
 4. What is RowMapper? Explain it.
- Que.2(C) Answer the following questions (ANY ONE) (05)
1. Explain PreparedStatement with JdbcTemplate class.
 2. Explain operators in SpEL.
- Que.3(A) Answer the following questions (03)
1. What is Xstream?
 2. What is Castor?
 3. What is Struts2?
- Que.3(B) Answer the following questions (ANY TWO) (06)
1. What is JAXB? Explain it.
 2. What is Hibernate Dialects? Explain it.
 3. Explain Hibernate with annotation.
 4. Explain caster with spring.
- Que.3(C) Answer the following questions (ANY ONE) (05)
1. Write spring framework and struts integration steps.
 2. Explain Hibernate architecture.
- Que.4(A) Answer the following questions (03)
1. What is Mapping Bag?
 2. What is Bidirectional?
 3. What is Collection mapping?

- Que.4(B) Answer the following questions (ANY TWO) (06)
1. What is lazy collection? Explain it.
 2. Explain bidirectional collection mapping.
 3. List out types of inheritance mapping. Explain any one.
 4. Explain Table Per Hierarchy.
- Que.4(C) Answer the following questions (ANY ONE) (05)
1. Explain with example Many-to-Many collection mapping using Map.
 2. Explain one-to-many using XML.
- Que.5(A) Answer the following questions (03)
1. What is Cache?
 2. What is Transaction?
 3. What is Foreign Key?
- Que.5(B) Answer the following questions (ANY TWO) (06)
1. Define first level cache and second level cache.
 2. Write a code to execute hibernate with struts.
 3. Explain caching in Hibernate.
 4. Create a project with one to many using primary key.
- Que.5(C) Answer the following questions (ANY ONE) (05)
1. Give advantages of spring framework with Hibernate.
 2. Explain transaction management in Hibernate.
