

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
Nov/Dec-2023 (SYLLABUS YEAR JUNE-2023)
Application Development using Advance Java (CORE)

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. Full form of JDBC.
 2. Full form of MVC.
 3. Full form JSP.
- Que-1(B) Answer the following questions. (ANY TWO) (06)
1. What is Constructor-based dependency?
 2. What is the use/role of IoC container in Spring Framework?
 3. Explain Dependency Injection with Factory Method.
 4. What is Setter-based dependency?
- Que-1(C) Answer the following questions. (ANY ONE) (05)
1. Explain benefits/advantages of Spring Framework.
 2. Explain JDBC Architecture.
- Que-2(A) Answer the following questions. (03)
1. What is Spring Expression Language?
 2. What is Spring JdbcTemplate?
 3. What is RowMapper?
- Que-2(B) Answer the following questions. (ANY TWO) (06)
1. Write advantages of JdbcTemplate with spring framework.
 2. Explain in brief: Spring remoting with RMI.
 3. Explain the flow of Web MVC in Spring Framework.
 4. Explain PreparedStatement with JdbcTemplate class.
- Que-2(C) Answer the following questions. (ANY ONE) (05)
1. Explain ResultSetExtractor with JdbcTemplate class.
 2. Explain operators in SpEL.
- Que-3(A) Answer the following questions. (03)
1. Write a Full form of JAXB.
 2. What is the role of JavaMailSender interface?
 3. What is Xstream?
- Que-3(B) Answer the following questions. (ANY TWO) (06)
1. Explain Castor with spring in brief.
 2. Explain in brief: Hibernate Framework
 3. Write spring framework and struts integration steps.
 4. Write steps to create hibernate application without IDE.
- Que-3(C) Answer the following questions. (ANY ONE) (05)
1. Explain Spring Java Mail API.
 2. Explain Hibernate Architecture.
- Que-4(A) Answer the following questions. (03)
1. What is Mapping Bag?
 2. What is Bidirectional?
 3. Define Inheritance Mapping.

- Que-4(B) Answer the following questions. (ANY TWO) (06)
1. Explain Mapping List collection mapping using xml file.
 2. Explain One-to-Many mapping with Mapping Set.
 3. Explain <key> element of Collection mapping file.
 4. Explain structure of XML mapping file collection mapping in hibernate.
- Que-4(C) Answer the following questions. (ANY ONE) (05)
1. Explain Hibernate Table per Hierarchy using xml file.
 2. Explain One-to-Many mapping using List by XML.
- Que-5(A) Answer the following questions. (03)
1. What is Transaction?
 2. What is Cache?
 3. Full form of HQL.
- Que-5(B) Answer the following questions. (ANY TWO) (06)
1. Explain various methods of Criteria Interface.
 2. Explain one-to-one using Primary Key.
 3. Define First Level Cache and Second Level Cache.
 4. Explain Caching in Hibernate.
- Que-5(C) Answer the following questions. (ANY ONE) (05)
1. Explain Component mapping in detail.
 2. Explain various methods of Restrictions Class.
