

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination**Nov/Dec-2023 (SYLLABUS YEAR JUNE-2018)****APPLICATION DEVELOPMENT USING ADVANCE JAVA(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. Figures to the right indicate marks.
 2. All questions are compulsory.
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- Que.1(A) Answer the following questions. (03)
1. Full form JDBC.
 2. Full form of MVC.
 3. Give types of IoC container.
- Que.1(B) Answer the following questions. (ANY TWO) (06)
1. Write about JSP vs Servlet.
 2. What is constructor Injection?
 3. Explain spring Modules.
 4. What is the use/role of IoC container in Spring Framework?
- Que.1(C) Answer the following questions. (ANY ONE) (05)
1. Explain JDBC architecture.
 2. Explain JSP Life Cycle.
- Que.2(A) Answer the following questions. (03)
1. What is JdbcTemplate class?
 2. What is Burlap?
 3. Full form of SpEL.
- Que.2(B) Answer the following questions. (ANY TWO) (06)
1. Explain RowMapper.
 2. Explain SimpleJdbcTemplate.
 3. Explain the flow of Web MVC in Spring Framework.
 4. Explain PreparedStatement in brief.
- Que.2(C) Answer the following questions. (ANY ONE) (05)
1. Explain operators in spEL.
 2. Explain JMS Integration with spring remoting.
- Que.3(A) Answer the following questions. (03)
1. Full form of OXM.
 2. Full form of ORM.
 3. Full form of JAXB.
- Que.3(B) Answer the following questions. (ANY TWO) (06)
1. Explain Hibernate Logging.
 2. Explain in brief: Xstream.
 3. Write spring framework and struts integration steps.
 4. Explain caster with spring in brief.
- Que.3(C) Answer the following questions. (ANY ONE) (05)
1. Explain Spring Java Mail API.
 2. Write Hibernate architecture.
- Que.4(A) Answer the following questions. (03)
1. Define Mapping Map.
 2. List out types of inheritance mapping.
 3. What is Table Per Hierarchy inheritance mapping?

- Que.4(B) Answer the following questions. (ANY TWO) (06)
1. Explain Lazy Collection.
 2. Explain Bidirectional Association.
 3. Explain <key> element of Collection mapping file.
 4. Explain One-to-Many mapping with Mapping Set.
- Que.4(C) Answer the following questions. (ANY ONE) (05)
1. Explain Hibernate inheritance Mapping.
 2. Explain One-to-Many mapping using Bag by XML.
- Que.5(A) Answer the following questions. (03)
1. What is component mapping?
 2. Full form of HQL.
 3. What is the role of criteria interface?
- Que.5(B) Answer the following questions. (ANY TWO) (06)
1. Explain Transaction in brief.
 2. Explain Methods of Query Interface.
 3. Explain Caching in Hibernate.
 4. Define First Level Cache and Second Level Cache.
- Que.5(C) Answer the following questions. (ANY ONE) (05)
1. Explain Advantage of hibernate with spring framework.
 2. Explain various methods of Restrictions class.
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