

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination**Nov/Dec-2023 (SYLLABUS YEAR JUNE-2016)****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.
-

- Que.1(A) Answer following Questions. (04)
1. A _____ factory method that returns instance of its own class.
 2. We can inject _____ values by setter method in spring framework.
 3. By using the _____ attribute of bean, we can specify the inheritance relation between the beans.
 4. What is spring?
- Que.1(B) Answer Any One. (02)
1. Explain SI dependent objects.
 2. Explain CI with collection.
- Que.1(C) Answer Any One. (03)
1. Write steps to create spring application in eclipse.
 2. Discuss difference between CI and SI.
- Que.1(D) Answer Any One. (05)
1. What is spring? Explain Spring modules and Spring with IDE.
 2. Write short note on autowiring.
- Que.2(A) Answer following Questions. (04)
1. Give full form of SPEL.
 2. Spring Data JPA API provides _____ class to integrate spring application with JPA.
 3. In spring JDBC _____ method is used to execute DDL queries.
 4. One can use _____ interface to fetch the records from the database using query() method of JdbcTemplate class.
- Que.2(B) Answer Any One. (02)
1. Explain RowMapper.
 2. Explain Http Invoker.
- Que.2(C) Answer Any One. (03)
1. Explain Hessian and Burlap.
 2. Explain with example: preparedStatement.
- Que.2(D) Answer Any One. (05)
1. Write short note on SPEL Expressions & Operators.
 2. Write short note on spring with Hibernate and spring with JPA.
- Que.3(A) Answer following Questions. (04)
1. By the help of _____ class, we can marshal the java objects into xml and vice-versa using castor.
 2. The _____ class is used to communicate spring application with struts 2.
 3. Hibernate _____ implements the interfaces and life cycle defined by the JPA specification.
 4. _____ generates the unique id only if no other process is inserting data into this table.

- Que.3(B) Answer Any One. (02)
1. Explain Spring and JXAB.
 2. Explain Hibernate Dialects.
- Que.3(C) Answer Any One. (03)
1. Write steps to create Hibernate application in MyEclipse.
 2. Explain Hibernate Generator Classes.
- Que.3(D) Answer Any One. (05)
1. Write short note on Hibernate Architecture.
 2. Write short note on Hibernate with Log4j 1 and Log4j2.
- Que.4(A) Answer following Questions. (04)
1. List out the sub elements of <class> element to map the collection.
 2. A _____ is a java collection that stores elements without caring about the sequencing but allow duplicate elements in the list.
 3. A _____ is a java collection that does not contain any duplicate element.
 4. In _____ class, tables are created per class. So there are no nullable values in the table.
- Que.4(B) Answer Any One. (02)
1. Explain Table per Hierarchy.
 2. What is Lazy Collection?
- Que.4(C) Answer Any One. (03)
1. Explain with example Table per Concrete.
 2. Explain with example Table per Subclass using Annotation.
- Que.4(D) Answer Any One. (05)
1. Explain many to many and one to many List by using XML.
 2. Explain one to many by Set and many to many by Map.
- Que.5(A) Answer following Questions. (04)
1. Give full form of HCQL.
 2. In HQL, _____ method specifies the no. of records to be retrieved from the relation.
 3. Write HCQL query to get all records from emp table.
 4. _____ caching will work for read and write but one at a time.
- Que.5(B) Answer Any One. (02)
1. What is HQL? Explain advantages of HQL?
 2. Explain criteria interface.
- Que.5(C) Answer Any One. (03)
1. Explain Hibernate NamedQuery by mapping.
 2. Explain component mapping.
- Que.5(D) Answer Any One. (05)
1. Write short note on Hibernate Transaction Management.
 2. Write short note on Hibernate Caching.
