

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination**Feb/Mar. -2021 (OLD COURSE)****APPLICATION DEVELOPMENT USING ADVANCE JAVA(CORE)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q.1(A) Answer the following questions. Do As Directed. (Short Questions) (04)
1. What is Set Collection?
 2. What is Spring?
 3. Fill form of IOC is _____.
 4. Full form of AOP is _____.
- Q.1(B) Answer any one. (02)
1. Explain Factory Method.
 2. What is Inheriting Bean?
- Q.1(C) Answer any one. (03)
1. Give overview of the Spring Lifecycle.
 2. Explain attributes of <constructor-arg> tag.
- Q.1(D) Answer any one. (05)
1. What is Setter Injection? Explain in details.
 2. Differentiate: CI and SI.
- Q.2(A) Answer the following questions. Do As Directed. (Short Questions) (04)
1. Full form of JDBC is _____.
 2. Full form of RMI is _____.
 3. Full form of SPEL is _____.
 4. Full form of ORM is _____.
- Q.2(B) Answer any one. (02)
1. Explain Hessain.
 2. Explain Burlap.
- Q.2(C) Answer any one. (03)
1. What is JPA? Explain.
 2. What is Simple JDBC Template? Explain.
- Q.2(D) Answer any one. (05)
1. Create a spring project that explains the utility of prepared statement.
 2. Create a Spring Project that explains the use of RowMapper.
- Q.3(A) Answer the following questions. Do As Directed. (Short Questions) (04)
1. Full form of OXM is _____.
 2. Explain Spring with Castor.
 3. Define: Xstream.
 4. What is Hibernate?
- Q.3(B) Answer any one. (02)
1. List advantages of Hibernate.
 2. Explain Generator Classes.
- Q.3(C) Answer any one. (03)
1. Explain Architecture of Hibernate.
 2. What is Dialects? List the different dialects supports by Hibernate.

- Q.3(D) Answer any one. (05)
1. Write a program which executes Login Logout Application using Struts.
 2. Write a program which dynamically insert data in database and display data using Hibernate.
- Q.4(A) Answer the following questions. Do As Directed. (Short Questions) (04)
1. Explain Bi-directional association.
 2. Define the term: Mapped SuperClass.
 3. What is Lazy Collection?
 4. What is indexed collection?
- Q.4(B) Answer any one. (02)
1. What is Collection Mapping?
 2. Explain table per subclass.
- Q.4(C) Answer any one. (03)
1. Explain Map and Bag of collection mapping.
 2. Explain table per concrete using annotation.
- Q.4(D) Answer any one. (05)
1. Write a program to table per hierarchy in inheritance mapping.
 2. Write a program to execute Mapping One to Many in Collection Mapping.
- Q.5(A) Answer the following questions. Do As Directed. (Short Questions) (04)
1. Full form of HCQL is _____.
 2. Define: HQL.
 3. Define: Association Mapping.
 4. Define: primary Key.
- Q.5(B) Answer any one. (02)
1. Explain First Level Caching?
 2. Explain Second Level Caching?
- Q.5 (C) Answer any one. (03)
1. Write a program to execute 1st level cache with Hibernates and spring.
 2. Write a program to execute 2nd level cache with Hibernates and spring.
- Q.5(D) Answer any one. (05)
1. Explain one to one mapping using Primary Key.
 2. Explain one to one mapping using Foreign Key.
