

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination**Jan/Feb. -2022 [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.** (04)
1. Write full form of JDBC.
 2. Write full form of JSP.
 3. Write full form of CI.
 4. Write full form of MVC.
- Q.1(B) **Answer the following question. (Any one)** (02)
1. Explain SI.
 2. What is point cut?
- Q.1(C) **Answer the following question. (Any one)** (03)
1. Write down step of JDBC Connection.
 2. What is Dependency Injection? List out types of Dependency Injection.
- Q.1(D) **Answer the following question. (Any one)** (05)
1. Explain architecture of Spring Framework.
 2. Explain SI Dependent Object with example.
- Q.2(A) **Answer the following questions.** (04)
1. Full form RMI.
 2. What is Spring Expression Language (SpEL)?
 3. Full form JMS.
 4. What is Burlap?
- Q.2(B) **Answer the following question. (Any one)** (02)
1. Explain operators in SpEL.
 2. What is JPA?
- Q.2(C) **Answer the following question. (Any one)** (03)
1. What is simpleJdbc template?
 2. Explain RowMapper.
- Q.2(D) **Answer the following question. (Any one)** (05)
1. Explain advantages of ORM framework used with spring.
 2. Write a program to execute simple hibernate with spring.
- Q.3(A) **Answer the following questions.** (04)
1. Write a Full form of OXM.
 2. Explain generator class.
 3. What is Xstream?
 4. What is the role of JavaMailSender interface?
- Q.3(B) **Answer the following question. (Any one)** (02)
1. What is castor? Explain it.
 2. What is dialects? Explain it.
- Q.3(C) **Answer the following question. (Any one)** (03)
1. Explain @Entity annotation with suitable example.

2. Explain Hibernate jar files. (05)
- Q.3(D) Answer the following question. (Any one)**
1. Explain Architecture of Hibernate framework.
 2. Write a program for Hibernate application with Annotation.
- Q.4(A) Answer the following questions. (04)**
1. List out types of inheritance mapping.
 2. What is Many-to-Many collection mapping using Map?
 3. Explain Bidirectional.
 4. What is Collection mapping?
- Q.4(B) Answer the following question. (Any one) (02)**
1. Explain set collection.
 2. Differentiate: Bag v/s List.
- Q.4(C) Answer the following question. (Any one) (03)**
1. Explain Table per concrete.
 2. Explain Set Collection.
- Q.4(D) Answer the following question. (Any one) (05)**
1. Write a program to execute Mapping Bag one to one in Collection Mapping.
 2. Write a program Table per sub class without Annotation.
- Q.5(A) Answer the following questions. (04)**
1. Full form of HQL.
 2. Full form of HCQL.
 3. What is Transaction?
 4. What is the role of order class?
- Q.5(B) Answer the following question. (Any one) (02)**
1. What is Component Mapping?
 2. Explain Primary Key.
- Q.5(C) Answer the following question. (Any one) (03)**
1. Explain various methods of criteria interface.
 2. Define First Level Cache and Second Level Cache.
- Q.5(D) Answer the following question. (Any one) (05)**
1. Explain Caching in Hibernate.
 2. Write a program to execute hibernate with struts.
