

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination**Oct/Nov. -2018****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 Answer the following questions.
- (A) Do As Directed. (Short Questions) (04)
1. Explain Set Collection.
 2. Define: Dependency Injection.
 3. Full form of CI is _____.
 4. Full form of SI is _____.
- (B) Answer Any One. (02)
1. List the application of Spring.
 2. What is Inheriting Bean?
- (C) Answer Any One. (03)
1. Give overview of the Spring Lifecycle.
 2. Explain AOP Pointcut.
- (D) Answer Any One. (05)
1. What is auto wiring? Explain in details.
 2. Difference between: CI and SI.
- Que-2 Answer the following questions. (04)
- (A) Do As Directed. (Short Questions)
1. Explain JPA.
 2. Which JDBC class is used to execute SQL queries?
 3. Full form of SPEL is _____.
 4. What is RMI?
- (B) Answer Any One. (02)
1. Define variables in SPEL.
 2. Describe difference between HTTP invoker, Hessain & Burlap?
- (C) Answer Any One. (03)
1. What is spring JMS?
 2. What is Simple JDBC Template? Explain.
- (D) Answer Any One. (05)
1. What is SPEL? How to use operator and variable in SPEL?
 2. Create a Spring Project that illustrate the use of RowMapper.
- Que-3 Answer the following questions. (04)
- (A) Do As Directed. (Short Questions)
1. Full form of ORM is _____.
 2. Explain the term JAXB.
 3. Explain the term Xstream.
 4. What is Hibernate?
- (B) Answer Any One. (02)
1. Write down two advantages of Hibernate.
 2. Explain Hibernate jar files.
- (C) Answer Any One. (03)
1. What is the use of Log4j file?
 2. Explain @Table annotation.
- (D) Answer Any One. (05)
1. Write a program which executes Login and Logout Application using Struts.
 2. What is Dialects? List the different dialects supported by Hibernate.
- Que-4 Answer the following questions. (04)

- (A) Do As Directed. (Short Questions)
1. Define the term: Mapped Super Class.
 2. In Table per Hierarch mapping, nullable values are not stored in the table. TRUE or FALSE?
 3. What is Lazy Collection?
 4. Explain one to one mapping.
- (B) Answer Any One. (02)
1. What is Collection Mapping?
 2. What is Mapping List?
- (C) Answer Any One.
1. Write down the difference between Set, Map and Bag of collection mapping.
 2. Explain table per subclass using annotation.
- (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.
- Que-5 Answer the following questions. (04)
- (A) Do As Directed. (Short Questions)
1. Full form of HCQL is _____.
 2. Define: Association Mapping.
 3. Define: Foreign Key.
 4. _____ is an object that is stored as a value rather than entity reference.
- (B) Answer Any One. (02)
1. What is First Level Caching?
 2. What is Second Level Caching?
- (C) Answer Any One. (03)
1. What is Named Query?
 2. What is Component Mapping? Explain in brief.
- (D) Answer Any One. (05)
1. Explain HQL with methods.
 2. Create a project illustration using one to one Primary Key.
