

**M.Sc.(IT & CA) Semester - 1 (CBCS) Examination****Feb/Mar. -2021 (NEW 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. (03)

Do As Directed. (Short questions)

1. JSP stands for \_\_\_\_\_.
2. CI stands for \_\_\_\_\_.
3. What is Factory Method?

Q.1(B) Answer Any Two (06)

1. Explain the difference between: CI & SI.
2. What is spring? Explain Spring Modules.
3. What is MVC? Explain.
4. Explain JDBC Architecture.

Q.1(C) Answer Any One (05)

1. What is Constructor Injection? Explain with details.
2. Write a program to execute any one collection of SI.

Q.2(A) Answer the following questions. (03)

Do As Directed. (Short questions)

1. Define: Burlap?
2. Define: Hessian.
3. RMI stands for \_\_\_\_\_.

Q.2(B) Answer Any Two. (06)

1. Define variables in SPEL.
2. What is spring with JPA?
3. Explain Operators in SPEL.
4. What is MVC? How it works?

Q.2(C) Answer Any One (05)

1. Create a spring project that will illustrate the use of RowMapper.
2. Explain in details about Http Invoker.

Q.3(A) Answer the following questions. (03)

Do As Directed. (Short questions)

1. OXM stands for \_\_\_\_\_.
2. JAXB stands for \_\_\_\_\_.
3. What is Xstream in spring?

- Q.3(B) Answer Any Two (06)
1. What is the difference between springs and struts?
  2. Explain @Table annotation.
  3. Write a note on Hibernate Dialects.
  4. Explain in brief about Hibernate in Eclipse.
- Q.3(C) Answer Any One. (05)
1. Explain Hibernate with log4j with XML file.
  2. Create a project for Login and Logout process using spring.
- Q.4(A) Answer the following questions. (03)
- Do As Directed. (Short questions)
1. What is bi-direction?
  2. Define: Lazy Collection.
  3. Which sign is used to define annotation entity?
- Q.4(B) Answer Any Two (06)
1. Explain Table per Hierarchy.
  2. Explain Mapping List and its types.
  3. Write down the difference between Set, Map and Bag of collection Mapping.
  4. Explain Table per Subclass.
- Q.4(C) Answer Any One (05)
1. Create a project illustrating Table per Concrete.
  2. Write a program to execute Mapping Bag one to many in Collection Mapping.
- Q.5(A) Answer the following questions. (03)
- Do As Directed. (Short questions)
1. HQL stands for \_\_\_\_\_.
  2. HCQL stands for \_\_\_\_\_.
  3. Define: Primary Key.
- Q.5(B) Answer Any Two. (06)
1. Explain the types of Association Mapping.
  2. Define: Named Query.
  3. What is first level cache?
  4. What is second level cache?
- Q.5 (C) Answer Any One. (05)
1. Create a project illustrating one to one using primary key.
  2. Create a project illustrating one using foreign key.

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