M. Sc. (I.T) (Sem. I) (CBCS) Examination

December - 2019

CS - 01 : Application Development Using Advance Java

Faculty Code : 003

Subject Code : 1081001

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

1   Attempt the following questions :   14

(A)   Objective type questions   4

  (1)   DI stands for _____.

  (2)   _____ is the default spring bean scope.

  (3)   IOC stands for _____.

  (4)   What is Autowiring?

(B)   Write an answer in brief : (Any **One**)   2

  (1)   Explain Pointcut.

  (2)   Explain Factory Method.

(C)   Write an answer in detail : (Any **One**)   3

  (1)   Explain Collection.

  (2)   Explain Advices.

(D)   Write a note on : (Any **One**)   5

  (1)   Explain AOP Terminology.

  (2)   Write a Program for a question having a multiple answers using constructor injection with Map. Display Question id, Question, answers. Write a code for java & xml file.

2   Attempt the following questions :   **14**

(A)   Objective type questions :   **4**

(1)   _____ interface allows to map a row of the relations with the instance of user-defined class.

(2)   Controller class renders the objects passed by the controller's handler method. [True/False]

(3)   SPEL stands for _____.

(4)   _____ is method to retrieve the JDBC template.

(B)   Write an answer in brief : (Any **One**)   **2**

(1)   Explain Http Invoker.

(2)   Explain Named Parameter.

(C)   Write an answer in detail : (Any **One**)   **3**

(1)   Explain operators in SpEL.

(2)   Explain Spring with JMS.

(D)   Write a note on : (Any **One**)   **5**

(1)   Write a Program to print cube of given number using Spring and RMI.

(2)   Write a Program to display all records of Employee Table (id, name, salary) using ResultSetExtractor.

3   Attempt the following questions :   **14**

(A)   Objective type questions :   **4**

(1)   OXM is an acronym for _____.

(2)   JAXB stands for _____.

(3)   What is XStream?

(4)   Which is the root node/element of hbm.xml file?

(B)   Write an answer in brief : (Any **One**)   **2**

(1)   Explain Hibernate Annotation.

(2)   Explain <hibernate-mapping> tag.

(C) Write an answer in detail : (Any **One**)   **3**

    (1) Explain Hibernate Generator Classes.

    (2) Explain Hibernate Dialects.

(D) Write a note on : (Any **One**)   **5**

    (1) Explain Hibernate with Log4j 1.

    (2) Explain Hibernate with Log4j 2.

4 Attempt the following questions :   **14**

(A) Objective type questions :   **4**

    (1) Table per Object Inheritance model is available in Hibernate. [True/False]

    (2) _____ property of hibernate configuration file is used to enable automatic table creation option.

    (3) In hibernate; database table configuration is stored in _____ file.

    (4) _____ association allows us to fetch details of dependent object from both side.

(B) Write an answer in brief : (Any **One**)   **2**

    (1) Explain one to many by Set.

    (2) Explain Lazy Collection.

(C) Write an answer in detail : (Any **One**)   **3**

    (1) Explain Table Per Concrete using Annotation.

    (2) Explain Table Per Subclass using XML.

(D) Write a note on : (Any **One**)   **5**

    (1) Explain Mapping List with example.

    (2) Explain Mapping Bag with example.

5   Attempt the following questions :   **14**

   (A)   Objective type questions :   **4**

      (1)   HQL stands for _____.

      (2)   The object of Criteria can be obtained by calling
the _____ method of Session interface.

      (3)   What is Component Mapping?

      (4)   _____ objectholds second level cache data.

   (B)   Write an answer in brief : (Any **One**)   **2**

      (1)   Explain first level cache.

      (2)   Explain Association Mapping.

   (C)   Write an answer in detail : (Any **One**)   **3**

      (1)   Explain Named Query.

      (2)   Explain Transaction Management in Hibernate.

   (D)   Write a note on : (Any **One**)   **5**

      (1)   Explain with example One-to-One Mapping using
Primary Key.

      (2)   Create a project illustrating one-to-one using foreign
key.

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