



PBT-003-1081001 Seat No. _____

M. Sc. (I.T. & C.A.) (Sem. I) (CBCS) Examination

November / December - 2018

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) AOP stands for _____.
- (2) IOC stands for _____.
- (3) What is Advice ?
- (4) What is Pointcut ?
- (b) Write answer in brief : (any **one**) 2
- (1) What is the difference between BeanFactory and ApplicationContext ?
- (2) Explain Factory Method.
- (c) Write answer in detail : (any **one**) 3
- (1) Explain attributes of <constructor-arg> tag.
- (2) Explain Spring Bean Scope.
- (d) Write a note on : (any **one**) 5
- (1) Explain Spring Model with diagram.
- (2) Explain Setter based DI with example.

- 2** Attempt the following questions : **14**
- (a) Objective type questions : **4**
- (1) ORM stands for _____.
 - (2) _____ is a method of PreparedStatement Callback interface.
 - (3) _____ is an expression language supporting the features of querying and manipulating an object graph at runtime.
 - (4) JPA stands for _____.
- (b) Write answer in brief : (any **one**) **2**
- (1) Explain Hessain.
 - (2) Explain Burlap.
- (c) Write answer in detail : (any **one**) **3**
- (1) Explain Jdbc Template class.
 - (2) Explain SpEL with example.
- (d) Write a note on : (any **one**) **5**
- (1) Write a note on Spring with RMI.
 - (2) Write a program to display all records of Book Table (id, title, price) using ResultSetExtractor.
- 3** Attempt the following questions : **14**
- (a) Objective type questions : **4**
- (1) The _____ class is used to communicate spring application with struts 2.
 - (2) What is the deference between Castor and Xstream ?
 - (3) Hibernate is designed/developed by _____.
 - (4) What is hibernate.dialect property ?

- (b) Write answer in brief : (any **one**) **2**
- (1) What are the advantages of Hibernate ?
 - (2) Explain <hibernate-mapping> tag.
- (c) Write answer in detail : (any **one**) **3**
- (1) Explain Hibernate Generator Classes.
 - (2) Explain Architecture of Hibernate.
- (d) Write a note on : (any **one**) **5**
- (1) Explain Hibernate with Annotation using example.
 - (2) Explain Spring with JAXB using example.
- 4** Attempt the following questions : **14**
- (a) Objective type questions : **4**
- (1) What is Table per Concrete Class Mapping ?
 - (2) Which Inheritance Mapping strategy require extra column to identify class ?
 - (3) What is hbm2ddl.auto property in hibernate ?
 - (4) Give the name of indexed and non-indexed collections.
- (b) Write answer in brief : (any **one**) **2**
- (1) Explain Mapping Map.
 - (2) Explain Mapping Set.
- (c) Write answer in detail : (any **one**) **3**
- (1) Explain One to Many by List using XML.
 - (2) Explain One to One by list using XML.

- (d) Write a note on : (any **one**) 5
- (1) Explain Table Per Hierarchy with example.
 - (2) Explain Table Per Subclass with example.
- 5** Attempt the following questions : 14
- (a) Objective type questions : 4
- (1) Which are the two ways to define the named query in hibernate ?
 - (2) _____ cache enabled by default and works in session scope.
 - (3) HCQL stands for _____.
 - (4) An association mapping can be _____ as well as _____.
- (b) Write answer in brief : (any **one**) 2
- (1) Explain Component Mapping.
 - (2) Explain Association Mapping.
- (c) Write answer in detail : (any **one**) 3
- (1) Explain Hibernate Caching.
 - (2) Explain HQL.
- (d) Write a note on : (any **one**) 5
- (1) Explain One-to-One Mapping using Primary Key.
 - (2) Explain One-to-One Mapping using Foreign Key.