



**ME-003-1081001**

Seat No. \_\_\_\_\_

**M. Sc. (IT & CA) (Sem. I) (CBCS) Examination**

**January - 2018**

**CS-01 : Application Development using  
Advanced Java**

**Faculty Code : 003**

**Subject Code : 1081001**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) Explain set collection.
  - (2) What is collection ?
  - (3) Define pointcut
  - (4) What is AOP?
- (b) Attempt any **one** of the following : 2
- (1) List the application of spring.
  - (2) What is construction injection?
- (c) Attempt any **one** of the following 3
- (1) Explain setter injection in detail.
  - (2) Differentiate Ci Vs Vi
- (d) Attempt any **one** of the following : 5
- (1) What is autowiring'? Explain in detail.
  - (2) What is factory method? Explain in detail.
- 2 (a) Attempt the following : 4
- (1) What is Burlap?
  - (2) Define L Hessain.
  - (3) What is RMI?
  - (4) Explain JPA.

- (b) Attempt any **one** of the following : 2
- (1) Explain operators in SpEl.
  - (2) Define Variables in Spel.
- (c) Attempt any **one** of the following : 3
- (1) Explain Named Parameter in speirng
  - (2) What is SimpleJdbc Template ?? Explain.
- (d) Attempt any **one** of the following : 5
- (1) Create a spring project that will explain the utility of prepared statement.
  - (2) Create a spring project that illustrate the use of RowMapper.
- 3** (a) Attempt the following : 4
- (1) What is OXM?
  - (2) Explain JAXB.
  - (3) Define XStream.
  - (4) What is hibernate?
- (b) Attempt any **one** of the following : 2
- (1) What is the use log4j file? Explain in brief.
  - (2) Explain @Table annotation.
- (c) Attempt any **one** of the following : 3
- (1) Explain the hibernate jar files.
  - (2) Explain @Entity annotation with suitable example.
- (d) Attempt any **one** of the following : 5
- (1) What is Dialects? List the different dialects supported by hibernate.
  - (2) Explain hibernate with log4j with xml file.

- 4 (a) Attempt the following : 4
- (1) What is bidirection?
  - (2) What is Lazy collection?
  - (3) Differentiate: Bag Vs List
  - (4) Explain one to one mapping.
- (b) Attempt any **one** of the following : 2
- (1) Explain the XML entry of one-to-many mapping.
  - (2) What is many to many ? Explain using example.
- (c) Attempt any **one** of the following : 3
- (1) What is inheriting mapping?
  - (2) Explain Mapping list.
- (d) Attempt any **one** of the following : 5
- (1) Create a project illustrating the Table per concrete.
  - (2) Create a project illustrating the table per subclass.
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- 5 (a) Attempt the following : 4
- (1) What is HQL?
  - (2) Define HCQL.
  - (3) List the types of association mapping.
  - (4) Define Cache.
- (b) Attempt any **one** of the following : 2
- (1) Explain transaction management in brief.
  - (2) Define: named query.
- (c) Attempt any **one** of the following : 3
- (1) What is component mapping? Explain in brief
  - (2) What is first level cache ?
- (d) Attempt any **one** of the following : 5
- (1) Create a project illustrating one-to-one using primary key.
  - (2) Create a project illustrating one-to-one using foreign key.