

SHREE H. N. SHUKLA COLLEGE OF I.T. & MGMT.

(AFFILIATED TO SAURASHTRA UNIVERSITY)



2 – Vaishalinagar
Nr. Amrapali Railway Crossing
Raiya Road
Rajkot – 360001
Ph.No–(0281)2440478,2472590

3 – Vaishalinagar
Nr. Amrapali Railway Crossing
Raiya Road
Rajkot - 360001
Ph.No–(0281)2471645



MBX-003-1081001 Seat No. _____

M. Sc. IT (Sem. I) (CBCS) (W. I. F. 2016) Examination

December – 2016

CS-01 : Application Development Using Advance JAVA

Faculty Code : 003

Subject Code : 1081001

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

[Total Marks : 70

Instruction : Answers of all questions must be written in answer sheet only.

1 (A) Answer the following questions : 4

- (1) Write down the full form of AOP ?
- (2) Write down the full form CI ?
- (3) Write down the full form SI ?
- (4) What is Spring ?

(B) Answer the following question : (Any One) 2

- (1) Write down the difference CI V/s SI
- (2) Explain the term Auto-wiring

(C) Answer the following questions : (Any One) 3

- (1) Explain Spring Modules with diagram
- (2) What do you mean by Pointcut ?

(D) Answer the following questions : (Any One) 5

- (1) Write a program to execute any one collection of SI.
- (2) Write a program which executes the CI Inheriting Bean.

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2 (A) Answer the following questions : 4

- (1) Write down the full form of JDBC.
- (2) What do you mean by ROW MAPPER ?
- (3) Explain the term JPA.
- (4) Write down the full form of JMS.

(B) Answer the following questions : (Any One) 2

- (1) Describe MVC of Spring3.
- (2) Describe difference between Http Invoker, Hessain & Burlap.

(C) Answer the following questions : (Any One) 3

- (1) What do you mean by SpEL and list out all operators of SpEL and explain any one.
- (2) Execute the program for ResultSetExtractor

(D) Answer the following questions : (Any One) 5

- (1) Write down the program which executes the Prepaid Statement.
- (2) Write down the program which executes any one operator of SpEL.

3 (A) Answer the following questions : 4

- (1) Write down the full form of JAXB
- (2) Write down the full form of OXM
- (3) Explain the term Xstream
- (4) Explain the term Caster.

(B) Answer the following questions : (Any One) 2

- (1) What do you mean by Hibernet and explain any two advantages.
- (2) Write down the difference Hibernet V/s Hibernet with annotation.

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(C) Answer the following questions : (Any One) 3

- (1) List out all the Generator classes of Hibernet and explain any two of them.
- (2) Write a program which dynamic insert in database and display that data using Hibernet.

(D) Answer the following questions : (Any One) 5

- (1) Explain the Hibernet Architecture with its diagram.
- (2) Write a program which executes Login and Logout application using Struts2.

4 (A) Answer the following questions : 4

- (1) Explain the term Inheritance Mapping
- (2) Write down the syntax to configure Session in inheritance mapping
- (3) Define Table Per Hierarchy
- (4) Define Table Per Subclass

(B) Answer the following questions : (Any One) 2

- (1) Explain the term Bidirectional Association
- (2) What do you think about the Lazy Collection ?

(C) Answer the following questions : (Any One) 3

- (1) Write down the difference between Set, Map and Bag of collection mapping.
- (2) Write a program to execute Table Per Subclass with annotation.

(D) Answer the following questions : (Any One) 5

- (1) Write down the program to execute Mapping Map Many to Many in collection mapping.
- (2) Write a program to execute Mapping Bag One to Many in collection mapping.

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5 (A) Answer the following questions : 4

- (1) Define the term HQL.
- (2) Define the term HCQL.
- (3) Explain all the Association Mapping type.
- (4) Define the term Primary Key.

(B) Answer the following questions : (Any One) 2

- (1) What do you mean by First Level Caching ?
- (2) What do you mean by Second Level Caching ?

(C) Answer the following questions : (Any One) 3

- (1) Write down the difference : HQL V/s HCQL
- (2) Write a program to execute Second level cache with Hibernate and Spring.

(D) Answer the following questions : (Any One) 5

- (1) Write down the difference between Primary Key V/s Foreign Key.
- (2) Write a program to execute Foreign Key using One to One in Mapping

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