

36/A-18

Seat No _____

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SARDAR PATEL UNIVERSITY
Master of Computer Application
Semester – IV External Examinations
PS04EMCA21 – Advanced Java Programming
15th April, 2019, Monday

Time: 02:00 p.m. to 05:00 p.m.

Max Marks: 70

Q1. Choose the most appropriate option for each question.

[8]

- i. _____ method can be used to get complete list of all parameters in the current request.
A) request.getParameter() B) request.getParameterNames()
C) request.getParameterValues() D) None of these
- ii. _____ returns the port number on which the request was received.
A) request.getServerPort() B) response.getServerPort()
C) Header.getServerPort() D) None of these
- iii. _____ is used to forward to a servlet, JSP, HTML page, and so on, on the server.
A) RequestDispatcher.send() B) ResponseDispatcher.forward()
C) RequestDispatcher.redirect() D) RequestDispatcher.forward()
- iv. The dispatcher result type which is used if no other result type is specified is _____.
A) error B) input
C) default D) success
- v. _____ object is used to create SessionFactory object in hibernate.
A) Configuration B) Session
C) Sessionfactory D) Transaction
- vi. _____ creates a new instance of Query for the given SQL query string.
A) request.createSQLQuery B) response.createSQLQuery
C) Session.createSQLQuery D) Session.createQuery
- vii. Which of the following bean stores data of a particular user for a single session?
A) Stateful B) Stateless
C) Message-driven beans D) None of these
- viii. Which of the following bean is represents persistent data storage?
A) Session beans B) Entity beans
C) Message-driven beans D) None of these

Q2. Answer the following questions (Any Seven):

[14]

- a. Define the following: 1)JSP Scriptlet tags 2)JSP declaration tags
- b. List any four advantages of Servlet.
- c. List all the four possible values of scope attribute on JSP page.
- d. Explain struts.xml configuration file used in Struts 2.
- e. Explain Struts 2 validation framework.
- f. Write the example of delete clause of HQL for Hibernate 3.
- g. Explain component tag of Hibernate 3.
- h. Draw the life cycle of message-driven beans.
- i. Explain the decorator pattern in J2EE design pattern.

(P.T.O)

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Q3. Answer the following questions:

- a. How is exceptional handling managed in servlets? List and explain of request attributes that that an error-handling servlet can access to analyse the nature of error/exception. [6]
- b. Explain different methods to set HTTP Status Code. Explain general structure of it. [6]

OR

- b. Draw and explain MVC Framework in detail. [6]

Q4. Answer the following questions:

- a. Discuss different control tags available in Struts 2 framework. [6]
- b. List different types of cookies. Explain cookies handling mechanism in servlets. [6]

OR

- b. Explain Struts 2 <result> tags. Write the code snippet for explaining different values return as "result" in action classes. [6]

Q5. Answer the following questions:

- a. List and discuss the components of JPA architecture. [6]
- b. Explain different components of Persistence Layer of Hibernate 3. [6]

OR

- b. What is session bean? Discuss different types of session beans in detail by taking a suitable example of your choice. [6]

Q6. Answer the following questions:

- a. Explain any two Hibernate 3 objects in detail. [6]
- b. create table ADDRESS ([6]

```
ADD_id INT NOT NULL auto_increment,  
HOUSE_NAME VARCHAR(20) default NULL,  
STREET_NAME VARCHAR(20) default NULL,  
CITY_NAME VARCHAR(20) default NULL,  
STATE_NAME VARCHAR(20) default NULL,  
COUNTRY_NAME VARCHAR(20) default NULL,  
PRIMARY KEY (ADD_id)  
);
```

The above table is created in mysql database. Write the code snippet for the pojo object and hibernate mapping tag for the above table.

OR

- b. What is a j2EE design pattern? Discuss composite entity pattern in detail. [6]

