

(51/A-11)

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

No. of printed pages: 2

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**SARDAR PATEL UNIVERSITY**  
**Master of Computer Application**  
**Semester – V External Examinations**  
**PS05EMCA02 – Advanced Java Programming**  
**2<sup>nd</sup> November, 2018, Friday**

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

Max Marks: 70

**Q1. Choose the most appropriate option for each question. [8]**

- i. Which of the following code is used to get locale in servlets?  
A) request.getServletLocale()                      B) request.getLocale()  
C) response.getLocale()                              D) Locale.getLocale()
- ii. Which of the following code retrieves the IP address of the client that sent the request?  
A) response.getRemoteAddr()                      B) Header.getRemoteAddr()  
C) request.getRemoteAddr()                        D) request.getIPAddr()
- iii. How to pass information from JSP to included JSP?  
A) <%jsp:page> tag                                    B) <%jsp:param> tag  
C) <%jsp:import> tag                                D) <%jsp:useBean> tag
- iv. The isELIgnored option gives you the ability to disable the evaluation of \_\_\_\_\_ expressions  
A) Eliminated Language                            B) Evolution Language  
C) Expression Language                            D) None of these
- v. Full form of HBM file is \_\_\_\_\_.  
A) Hibernate Mapping                                B) Hibernate Binding Mapping  
C) Hibernate Module                                D) None of these
- vi. If you want to display SQL statements in output window then \_\_ property is set to true.  
A) Auto\_SQL    B) Auto\_HQL  
C) Show\_SQL    D) Display\_SQL
- vii. \_\_\_\_\_ is a category of EJB.  
A) Invoke    B) Action  
C) Message driven                                    D) None of these
- viii. \_\_\_\_\_ bean does not save information between method calls.  
A) Stateful     B) Stateless  
C) Both A and B                                        D) None of these

**Q2. Answer the following questions (Any Seven): [14]**

- a. List all four values of scope attribute of JSP page.
- b. Draw Struts2 Architecture.
- c. List all the Servlet filters methods.
- d. List and explain different methods used for reading from form in servlets.
- e. State advantages of hibernate over JDBC.
- f. What is ORM? How many types of mapping exist?
- g. From which package Session factory object is available? Give the main use of Session factory object.
- h. What is the use of session bean?
- i. List the projects created under enterprise application of NetBeans IDE.

Q3. Answer the following questions:

- a. Explain different methods used for working with Internationalization in Servlets. [6]
- b. Write a short note on implicit objects in JSP. Explain any two in detail. [6]

OR

- b. Discuss different JSP actions in detail. [6]

Q4. Answer the following questions:

- a. Discuss the Struts 2 Validation framework. [6]
- b. Write a short note of the features of Struts 2 framework. [6]

- b. Explain Struts 2 action class. Write the code snippet for creating multiple action classes. [6]

Q5. Answer the following questions:

- a. Draw and explain Hibernate architecture. Also explain Transaction and Query object. [6]

- b. Consider table members in mysql with following columns members(ID int Auto\_increment, Name varchar(25)). Write code snippet for (i) HBM file, (ii) POJO class members.java and (iii) A [6]

java class to insert members in the members table.

OR

- b. Consider following tables in mysql database: [6]

1 Product(Product\_Id int PK, P\_name varchar (20) , Price int, Category\_Id FK to Category table)

2 Category(Category\_Id int PK, C\_Name varhcar(20))

If hibernate project is created which type of associations are present? Write HBM and POJO class for (i) Product and (ii) Category

Q6. Answer the following questions:

- a. Draw and explain EJB architecture in detail. [6]

- b. Write the code snippet for [6]

(1) To create stateless bean bookBean.Java having two methods Issue and Return. All methods takes one integer argument book\_no and return type is also integer.

(2) A JSP file having suitable interface.

(3) A servlet that calls the sateless bean.

OR

- b. What is the use of entity bean? Discuss entity beans in detail by taking a suitable example of your choice. [6]

→ X →  
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