

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

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY****FACULTY OF ENGINEERING & TECHNOLOGY****B.Tech / Int. B.Tech Winter 2024 - 25 Examination****Semester: 5 & 9****Date: 15/11/2024****Subject Code: 203105372****Time: 02:00 pm to 04:30 pm****Subject Name: Enterprise Programming****Total Marks: 60****Instructions:**

1. This question paper comprises of two sections. Write answer of both the sections in separate answer books.
2. From Section I, **Q.1 is compulsory, attempt any THREE from Q. 2 to Q. 5**
3. From Section II, **Q.6 is compulsory, attempt any THREE from Q. 7 to Q. 10**
4. Make suitable assumptions wherever necessary.
5. Start new question on new page.

Section-A (30 Marks)					
<b>Q.1</b>	<b>Objective Type Questions</b> - (State, Define, List, etc) (All are compulsory and each of two marks)	(6 )	<b>C O</b>	<b>P O</b>	<b>Bloom's Taxonomy</b>
	1. State the directive used to import classes, interfaces, or packages in a JSP page.		<b>2</b>	<b>1</b>	<b>Remember</b>
	2. Define the default embedded server in Spring Boot.		<b>2</b>	<b>1</b>	<b>Remember</b>
	3. List the tag used to map a URL pattern to a servlet in the web.xml file.		<b>2</b>	<b>1</b>	<b>Remember</b>
<b>Q.2</b>	<b>Answer the following questions.</b>				
	A) Explain hibernate DTD Schema (DTD) and its importance in hibernate.cfg.xml documents.	(2 )	<b>2</b>	<b>5</b>	<b>Understan d</b>
	B) Explain the Spring IoC Container and its role in Spring applications	(6 )	<b>2</b>	<b>5</b>	<b>Understan d</b>
<b>Q.3</b>	<b>Answer the following questions.</b>				
	A) What is Servlet container ? What tasks does a servlet container perform usually?	(2 )	<b>1</b>	<b>2</b>	<b>Understan d</b>
	B) Explain the mapping strategies used in Hibernate.	(6 )	<b>2</b>	<b>5</b>	<b>Understan d</b>
<b>Q.4</b>	<b>Answer the following questions.</b>				
	A) What is session tracking ? Explain the various techniques with an example	(2 )	<b>1</b>	<b>2</b>	<b>Understan d</b>
	B) What are Spring's Stereotype Annotations, and how do they help in component scanning?	(6 )	<b>2</b>	<b>5</b>	<b>Understan d</b>
<b>Q.5</b>	<b>Answer the following questions.</b>				
	A) What are the JSP lifecycle phases?	(2 )	<b>1</b>	<b>1</b>	<b>Remember</b>
	B) What is RowSet interface and explain its types?	(6 )	<b>2</b>	<b>5</b>	<b>Understan d</b>

Section-B (30 Marks)					
<b>Q.6</b>	<b>Objective Type Questions - (State, Define, List, etc)</b> (All are compulsory and each of two marks)	<b>(6)</b>			
	1.State the first method called when a servlet is initialized.		<b>1</b>	<b>1</b>	<b>Remember</b>
	2. Define the role of SessionFactory in Hibernate.		<b>2</b>	<b>5</b>	<b>Remember</b>
	3. List the packages that form the basis for Spring Framework's IoC container		<b>2</b>	<b>1</b>	<b>Remember</b>
<b>Q.7</b>	<b>Answer the following questions.</b>				
	A) Compare Hibernate Query Language (HQL) and SQL.	<b>(2)</b>	<b>2</b>	<b>2</b>	<b>Analyze</b>
	B) How can you define beans using annotation-based configuration in your application's component classes in Spring?	<b>(6)</b>	<b>2</b>	<b>3</b>	<b>Apply</b>
<b>Q.8</b>	<b>Answer the following questions.</b>				
	A) What is Dependency Injection in Spring, and how does it differ from traditional object creation?	<b>(2)</b>	<b>2</b>	<b>2</b>	<b>Understand</b>
	B) Describe Hibernate project structure	<b>(6)</b>	<b>2</b>	<b>5</b>	<b>Understand</b>
<b>Q.9</b>	<b>Answer the following questions.</b>				
	A) Explain Hibernate Criteria Query Language (HCQL).	<b>(2)</b>	<b>2</b>	<b>5</b>	<b>Understand</b>
	B) What are primary goals of spring boot framework	<b>(6)</b>	<b>2</b>	<b>11</b>	<b>Understand</b>
<b>Q.10</b>	<b>Answer the following questions.</b>				
	A) What are Spring Beans, and how are they managed by the Spring IoC Container?	<b>(2)</b>	<b>2</b>	<b>5</b>	<b>Understand</b>
	B) What is Hibernate and how does it simplify database interactions in Java applications?	<b>(6)</b>	<b>2</b>	<b>5</b>	<b>Understand</b>