

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022****Subject Code:3160707****Date:17-12-2022****Subject Name:Advanced Java Programming****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) 1) How do you get the IP address of a machine from its hostname? **03**
2) List out the important methods of HttpServletResponse.
3) What are the attributes for the JSP page directive?
- (b) 1) What is the function of a SessionFactory object? How will you obtain such an object? **04**
2) How can you apply JSF Input Validation using input validators?
- (c) What do you mean by session tracking? What are the session tracking techniques? Demonstrate any of them. **07**
- Q.2** (a) What are the differences between a TCP socket and UDP socket? How are they created in Java? **03**
- (b) Differentiate ServletConfig and ServletContext. **04**
- (c) What is connection URL? How do you make a database connection? Explain various ways to make the database connection using JDBC code snippets. **07**
- OR**
- (c) What is JDBC driver? Explain its role and compare various JDBC drivers. **07**
- Q.3** (a) What is the use of PreparedStatement? How will you use it? **03**
- (b) What is filter? How will you configure filter using deployment descriptor? **04**
- (c) What are the directive tags of JSP? Write a JSP page to demonstrate the use of them. **07**
- OR**
- Q.3** (a) What is the use of CallableStatement? How will you use it? **03**
- (b) What is FilterConfig? How will you use it? **04**
- (c) What are the implicit objects of JSP? Write a JSP page to demonstrate the use of them. **07**
- Q.4** (a) What is EL? Write a code snippet to show the use of method expressions in JSF page. **03**
- (b) How will you use <h:commandButton> and <h:dataTable>? **04**
- (c) Develop a web application as following to demonstrate the use of <jsp:useBean>. **07**
- Create a Java Bean named Employee with attributes name and age.
 - Create a web page to set the properties of Employee using <jsp:useBean>.
 - Create a web page to display the properties of Employee using <jsp:useBean>.
- OR**
- Q.4** (a) What is JSTL? Write a code snippet to show the use of flow control tags. **03**
- (b) Write a code snippet to show the use of JSF action event. **04**

- (c) Develop a web application as following to demonstrate the use of JSTL SQL tag library. **07**
- Create a web page to store the registration detail (Name, email and contact number) of user in the database.
 - Create a web page for user to update registration detail in the database.
 - Create a web page to display the list of all registered users.

- Q.5** (a) What is Spring AOP? What are Join points and Point cuts? **03**
(b) What is dependency Injection? What is the role IoC container in Spring? **04**
(c) What are the different Hibernate interfaces? Explain their role in brief. **07**

OR

- Q.5** (a) What is Hibernate? What are the features of it? **03**
(b) What is OR mapping? How will you configure hibernate mapping file to map a table and its columns from a given database? **04**
(c) What are the advantages of Spring MVC? Explain the flow of Spring Web MVC. **07**
