

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2024****Subject Code:3160707****Date:05-12-2024****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) What is the purpose of the URL class in Java? **03**
 2) List out the important methods of HttpServletResponse.
 3) What are the JSP action tags?
- (b) 1) What are the advantages of Hibernate over JDBC? **04**
 2) What are the three types of text field's tags provided by JSF?
- (c) What is JDBC driver? Explain its role and compare various JDBC drivers. **07**
- Q.2** (a) What are the differences between a TCP socket and UDP socket? How are they created in Java? **03**
- (b) Demonstrate the use of ServletConfig and ServletContext. **04**
- (c) How do you handle multiple clients concurrently in socket programming? Explain with example. **07**
- OR**
- (c) What is Session? Compare different session management techniques. **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 is Java Bean? Demonstrate the use of JSP bean in web application. **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 is JSTL? Explain the core tags of the SQL tag library. **07**
- Q.4** (a) What are the benefits of using JSF Framework? **03**
- (b) How will you use validator tags in JSF? **04**
- (c) What are the cookies? Demonstrate the use of cookies in servlet for session management. **07**
- OR**
- Q.4** (a) Explain the use of RequestDispatcher in servlet. **03**
- (b) Write a code snippet to show the use of JSF action event. **04**
- (c) Explain JSP inbuilt objects with their use in application. **07**
- Q.5** (a) What is the advantage of using Spring Framework? **03**
- (b) What do you understand by Dependency Injection? How do we implement it using Spring Framework? **04**
- (c) What are the different Hibernate interfaces? Explain their role in brief. **07**
- OR**
- Q.5** (a) What is Hibernate SessionFactory and how to configure it? **03**
- (b) Show the use of some important annotations for Hibernate mapping. **04**
- (c) Explain the flow of Spring Web MVC. **07**
