

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2021****Subject Code:2160707****Date:04/08/2021****Subject Name:Advanced Java****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.

- Q.1** (a) What are the components of URL? Show the use of URL class with an example. **03**
- (b) List the different types of JDBC drivers and explain any one of them. **04**
- (c) What is session? List out and discuss session tracking techniques. **07**
- Q.2** (a) Compare JSP and Servlet. **03**
- (b) What is hibernate? What are the main features of it? **04**
- (c) Write a client server program using TCP where the client sends two numbers and the server responds by displaying their sum. **07**
- OR**
- (c) What is the use of PreparedStatement? Explain it with example. **07**
- Q.3** (a) Write a java code to explain the use of RequestDispatcher. **03**
- (b) Explain the life cycle of JSP page. **04**
- (c) What are cookies? Demonstrate the use of cookies in servlet. **07**
- OR**
- Q.3** (a) Compare ServletConfig with ServletContext. **03**
- (b) Discuss any four implicit objects of JSP. **04**
- (c) What is Java Bean? Demonstrate the use of Java Bean in JSP page. **07**
- Q.4** (a) What is JSF? List and explain its features. **03**
- (b) Explain any four JSF HTML tags. **04**
- (c) What is JSTL? Explain the core tags of the SQL tag library. **07**
- OR**
- Q.4** (a) What is filter? Explain the configuration of filter using deployment descriptor. **03**
- (b) What are JSP action tags? Explain any four. **04**
- (c) Briefly explain the functions of each phase of JSF request processing life cycle. **07**
- Q.5** (a) What is HQL? What are the benefits of it? **03**
- (b) Explain any four Spring form tags with example. **04**
- (c) Briefly discuss the Spring's Web framework. **07**
- OR**
- Q.5** (a) What is OR mapping? Give an example of hibernate XML mapping file. **03**
- (b) Draw the Hibernate architecture diagram and explain each component. **04**
- (c) Briefly explain the architecture of Spring framework. **07**

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