

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2023****Subject Code:2160707****Date:05-12-2023****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.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) Differentiate statement and prepared statement interface. **03**
 (b) What are the components of URL? Show the use of URL class with an example. **04**
 (c) What is session? Explain session management using cookies. **07**
- Q.2** (a) Explain servlet life cycle. **03**
 (b) Differentiate Servlet Config and Servlet Context. **04**
 (c) Write a client-server java program using TCP sockets. **07**
- OR**
- (c) Write a java program to demonstrate the use of JDBC API to read and write data elements to and from a database table. **07**
- Q.3** (a) Explain the use of Result Set Meta Data. **03**
 (b) Explain the use of different JSP action tags. **04**
 (c) Demonstrate the use of implicit JSP objects. **07**
- OR**
- Q.3** (a) Explain the use of Callable Statement? **03**
 (b) Write a java code to explain the use of Request Dispatcher. **04**
 (c) Demonstrate the use of JavaBeans in JSP. **07**
- Q.4** (a) Explain how JSF is different from conventional JSP? **03**
 (b) Explain the steps for creating custom tags in JSP. **04**
 (c) Develop JSF application to test the annotations for managed beans. **07**
- OR**
- Q.4** (a) Write a code snippet to show the use of JSF action event. **03**
 (b) What is EL? Write a JSP page to define and use a function. **04**
 (c) Describe JSF request processing life cycle and explain the function of each phase. **07**
- Q.5** (a) What are the features of Spring framework? **03**
 (b) Explain the role of IoC container in Spring framework. **04**
 (c) Explain architecture of Hibernate. **07**
- OR**
- Q.5** (a) What is HQL? How does it differ from SQL? **03**
 (b) Explain OR mapping using hibernate mapping file. **04**
 (c) Explain the architecture of Spring Framework. **07**
