

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (OLD) EXAMINATION – WINTER 2018****Subject Code: 170703****Date: 26/11/2018****Subject Name: Advance Java Technology****Time: 10:30 AM TO 01:00 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) Write swing code to create toggle button and checkbox and handle their click event. **07**
Differentiate between toggle button and check box.
- (b) Explain various types of JDBC drivers and comment on selection of driver. **07**
- Q.2** (a) Explain the use of CallableStatement and PreparedStatement with example **07**
(b) Explain architecture of J2EE. List out java technologies supported by J2EE along with their applications **07**
- OR**
- (b) Write a Java Bean to connect to database and insert in the database. Query will be passed as a message to bean. **07**
- Q.3** (a) What is JNDI? How can it be used for accessing various directory services such as LDAP, NIS, DNS? **07**
(b) What is filter? What is its use? List the different filter interfaces with their important methods **07**
- OR**
- Q.3** (a) Explain internationalization and its usage **07**
(b) Explain Servlet life cycle & importance of context and config object. **07**
- Q.4** (a) What are cookies? Write a servlet that reads and prints all the previous cookies and add a cookie with your name **07**
(b) Enlist and explain the purpose and use of action tags in JSP **07**
- OR**
- Q.4** (a) Explain event handling in Java Servlet with example **07**
(b) Explain JSP tag library with examples **07**
- Q.5** (a) Give the hibernate architecture and discuss each part in brief **07**
(b) Explain Socket, ServerSocket, InetAddress classes. Write a java program to find an IP address of the machine on which the program runs. **07**
- OR**
- Q.5** (a) Explain O/R Mapping in Hibernate with example **07**
(b) Write a TCP or UDP client and server program to do the following: **07**
client> java client localhost/IP Port <enter>
Enter text: I hope, this time I clear Advance Java <enter>
Response from server: avaJ ecnavdA raelc I emit siht ,epoh I
client> exit
