

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2017****Subject Code: 2160707****Date: 08/11/2017****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) Discuss the application design with MVC architecture. **03**
(b) Discuss the use of GET and POST with example. **04**
(c) Write a program to insert student records to database using prepared statement. **07**
- Q.2** (a) Discuss the difference between the Socket and ServerSocket class. **03**
(b) Discuss CallableStatement with example. **04**
(c) Write a client-server program using UDP socket. Client send list of N numbers to server and server respond the sum of N numbers. **07**
- OR**
- (c) Write a client-server program using UDP socket. Client send the list of N strings and server responds the concatenation of those strings. **07**
- Q.3** (a) What is session? List the different ways to manage the session. **03**
(b) Discuss the possible uses of the ServletContext and ServletConfig object. **04**
(c) Write a servlet RegistrationServlet to get the values from registration.html html page and display the contents. Write the web.xml file. **07**
- OR**
- Q.3** (a) What is Filter? List the applications of filter. **03**
(b) Briefly explain the Servlet life cycle. **04**
(c) Write a Login servlet. Take input username and password from html file login.html and authenticate the user. Write the web.xml. **07**
- Q.4** (a) List JSP implicit objects and explain any two. **03**
(b) Briefly explain JSP life cycle. **04**
(c) Develop JSP page to display student information with subjects for particular semester from database. **07**
- OR**
- Q.4** (a) Compare JSP and Servlet. **03**
(b) List the JSTL core tags and explain any four with example. **04**
(c) Write a login.jsp page to get the login information from user and authenticate user with the database with JSTL SQL tags. **07**
- Q.5** (a) List the JSF facelets tags and explain any two. **03**
(b) What is hibernate? List the advantages of hibernate over JDBC. **04**
(c) Develop program to get all students data from database using hibernate. Write necessary xml files. **07**
- OR**
- Q.5** (a) List the JSF validation tags and explain any two. **03**
(b) Briefly explain spring bean life cycle. **04**

(c) Develop small application using Spring MVC framework.

07
