

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) – EXAMINATION – SUMMER 2019

Subject Code:2160707

Date:14/05/2019

Subject Name:Advanced Java

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) Mention advantages of J2EE. **03**
 - (b) Write a Web application using servlet to find the sum of all the digits of an input integer. **04**
 - (c) Describe the servlet life cycle with life cycle methods **07**

- Q.2**
- (a) What do you mean by MVC architecture? Explain its role in modern applications with its advantages **03**
 - (b) Write a Web application using servlet to find whether entered number is prime or not. **04**
 - (c) Explain JSF Application Life cycle with diagram. **07**

OR

- (c) Explain Hibernate Architecture and Object Relation Mapping in Hibernate with java code and required XML files. **07**
- Q.3**
- (a) Explain functionality of Cookie. **03**
 - (b) What is session? Explain session management using HttpSession. **04**
 - (c) Write a client-server program using TCP sockets to echo the message send by the client. **07**

OR

- Q.3**
- (a) Discuss concept of JDBC. **03**
 - (b) Explain JSP Object scope: (i) Page (ii) Request (iii) Session (iv) Application with example. **04**
 - (c) Write a client-server java programs using TCP sockets to get server date on client machine. **07**

- Q.4**
- (a) Explain the following classes with their use. i. URLConnection class ii. DatagramSocket (iii) DatagramPacket class **03**
 - (b) Write a JSP Page which use available java bean. Discuss functionality of used java beans. **04**
 - (c) Develop a jsp code which reads the student detail from web page and stores it in database **07**

OR

- Q.4**
- (a) Explain JSP (i) page (ii) include (iii) taglib directive with attribute, description. **03**
 - (b) Discuss JSP Exception Handling. **04**
 - (c) Write a servlet code to demonstrate prepare statement and callable statement to retrieve and store employee data. **07**

- Q.5**
- (a) Discuss Hibernate Query Language. **03**
 - (b) Discuss Java Bean life cycle with one example. **04**
 - (c) Draw and explain Spring Framework Architecture. **07**

OR

- Q.5**
- | | | |
|-----|--|-----------|
| (a) | Discuss JSF Converter Tag. | 03 |
| (b) | Explain following tags in JSTL with example : (i) Core (ii)XML | 04 |
| (c) | Write a Java Servlet to print BE Semester Marksheet of entered enrollment number and sem no by student using JDBC. | 07 |
