

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

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