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 Convertor 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

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