Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016

	Subject	t Code:2160707 Date:09/05/201	16
	Subject	t Name: Advanced Java	
	Time:	10:30 AM to 01:00 PM Total Marks:	70
	Instructi		
		Attempt all questions.Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	Answer the following questions:	07
	(I)	How does the JVM execute a servlet compared with a regular Java class? Consider a scenario in which 4 users are accessing a servlet instance. Among	
	(II)	which one user called destroy() method. What happens to the rest 3 users?	
	(III) (IV)	What is Connection Pooling? Can one JSP or Servlet extend another Servlet or JSP? Justify your answer.	
	(V)	What happens if you add a main method to servlet?	
	(VI)	What is phantom read in JDBC? Which isolation level prevents it?	
	(VII)	Servlet is Java class. Then why there is no constructor in Servlet? Can we write	
		the constructor in Servlet? Justify your answer.	
	(b)	What is JDBC? List out all various types of JDBC Driver. Explain Thick and	07
		Thin driver. Write code snippet for each type of JDBC connection. Comment on selection of driver.	
Q.2	(a)	Show the use of PreparedStatement object to run precompiled SQL statement.	07
	(b)	Also write example of java snippet for PreparedStaement. Write a TCP or UDP client and server program to do the following:	07
		client> java client localhost/IP Port <enter> Enter text: Welcome to Gujarat Technological UNIVERSITY <enter> Response from server: ytisrevinu LACIGOLONHCEt TARAJUg TO EMOCLEw client> exit</enter></enter>	
		OR	
	(b)	Write a client-server program using TCP or UDP where the client sends 10 numbers and server responds with the numbers in sorted order.	07
Q.3	(a)	Explain the Hibernate cache architecture.	0
	(b)	Write small web application which takes marks of three subject and pass to servlet. Servlet forward to model class having method getClass() and getPercentage(). Display class and percentage in .jsp page. OR	07
Q.3	(a)	Differentiate the followings: (Any Three)	07
		(I) GenericServlet vs HttpServlet (II) doGet() vs doPost()	
		(III) Servlets vs CGI	
		(IV) Session and Cookie	
		(V) JSP vs Servlet	
	(b)	Write a student bean class with property student_name, enrollment_no, address and cpi. Write jsp page to set and display all property.	07
O 4	(e)	List and Explain various stages of ISP life cycle. Briefly give the function of	Ω'

	each phase.		
	(b)	Write servlet which displayed following information of client.	07
		I. Client Browser	
		II. Client IP address	
		III. Client Port No	
		IV. Server Port No	
		V. Local Port No	
		VI. Method used by client for form submission	
		VII. Query String name and values	
		OR	
Q.4	(a)	List and Explain various stages of Servlet life cycle. Explain role of web	07
		container.	
	(b)	Write line(s) of code in JSP for following.	07
		I. Session read and write	
		II. URL rewriting sending and retrieving parameter(s)	
		III. URL redirection	
		IV. Print "hello world" as output	
		V. Include the other JSP file statically	
		VI. Expression to display date as output	
		VII. Method of setting the JSP parameters to use in JSTL	
Q.5	(a)	Draw the JSF request processing life cycle and briefly give the function of each	07
•	` /	phase.	
	(b)	What is HQL? How does it different from SQL? List its advantages.	07
	, ,	OR	
Q.5	(a)	What is Spring Web MVC framework? List its key features.	07
-	(b)	What is OR mapping? Give an example of Hibernate XML mapping file.	07
