

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018

Subject Code:2160707

Date:20/11/2018

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.

		MARKS
Q.1	(a) What is difference between include directive and jsp:include action tag?	03
	(b) Draw and explain hibernate architecture.	04
	(c) List different types of JDBC drivers and explain any two of them.	07
Q.2	(a) Write a java program to find an IP address of the machine on which the program runs.	03
	(b) Explain difference between ServletConfig and ServletContext object.	04
	(c) Write a client-server application using TCP Sockets where client can send message and server respond with the reverse of them.	07
	OR	
	(c) Write a Servlet that takes two numbers as an input and display all the prime numbers between them. Also write web.xml description for the servlet.	07
Q.3	(a) Explain ResultSetMetaData with suitable program.	03
	(b) List the JSTL core tags and explain any two with example.	04
	(c) What is CallableStatement? Show that how to use it to call a stored procedure running at database layer.	07
	OR	
Q.3	(a) Explain DataBaseMetaData with example.	03
	(b) Explain any two page directive in JSP with example.	04
	(c) Explain the use of the PreparedStatement object of the JDBC with an appropriate example	07
Q.4	(a) List advantages of JSP over Servlet	03
	(b) What is Servlet? Explain Servlet Life Cycle .	04
	(c) What is MVC architecture? Explain Spring architecture with neat sketch.	07
	OR	
Q.4	(a) Differentiate between GenericServlet and HttpServlet	03
	(b) Explain JSP life cycle phases.	04
	(c) What is ORM? Explain object/relational mappings in hibernate.	07
Q.5	(a) What is Filter? List the applications of filter.	03
	(b) What is Dependency Injection?	04
	(c) Draw the JSF request processing life cycle and briefly give the function of each phase.	07
	OR	
Q.5	(a) List the JSF facelets tags and explain any two.	03
	(b) Briefly explain spring bean life cycle.	04
	(c) List the JSF validation tags and explain any two.	07
