

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2020****Subject Code:2160707****Date:22/01/2021****Subject Name:Advanced Java****Time:02:00 PM TO 04:00 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		<b>Marks</b>
<b>Q.1</b>	(a) What is Hibernate? What is main advantage of using hibernate than using SQL?	<b>03</b>
	(b) Compare Directive Include and Standard Action Include in JSP.	<b>04</b>
	(c) Write a client server program using TCP. Client send list of N numbers to server and server respond the sum of N numbers with appropriate output.	<b>07</b>
<b>Q.2</b>	(a) What is a DatabaseMetaData? List out methods and explain any two with appropriate code.	<b>03</b>
	(b) Explain UseBean action tag in JSP with appropriate code.	<b>04</b>
	(c) Write a program to insert student records to database using callable statement with appropriate output.	<b>07</b>
<b>Q.3</b>	(a) Differentiate between GenericServlet and HttpServlet.	<b>03</b>
	(b) What is a deployment descriptor file? Explain it with code for managing the different errors or exceptions.	<b>04</b>
	(c) What is Request Dispatcher? What is the difference between Request dispatcher's forward() and include() method? Explain it in detail with program.	<b>07</b>
<b>Q.4</b>	(a) What is Filter? List the applications of filter.	<b>03</b>
	(b) Explain Servlet Life Cycle with example and demonstrate every state in detail.	<b>04</b>
	(c) What is session? List the different ways to manage the session and explain any one way with appropriate code.	<b>07</b>
<b>Q.5</b>	(a) What is a use of page directive tag? List out all attribute and explain any two in detail.	<b>03</b>
	(b) List out all Implicit object in JSP and explain any three in detail.	<b>04</b>
	(c) What is a use of directive taglib in JSP? Write down a program for creating your own tag by using taglib in JSP with appropriate output.	<b>07</b>
<b>Q.6</b>	(a) What is POJO? Explain Hibernate architecture in detail.	<b>03</b>
	(b) What is ORM? Explain object/relational mappings in hibernate.	<b>04</b>
	(c) What is a JSTL? List out all library and explain any one with appropriate code in detail.	<b>07</b>

<b>Q.7</b>	<b>(a)</b>	List the JSF facelets tags and explain any one in detail.	<b>03</b>
	<b>(b)</b>	List the JSF validation tags and explain any three in detail.	<b>04</b>
	<b>(c)</b>	Explain JSF application life cycle phases in detail with neat sketch.	<b>07</b>
<b>Q.8</b>	<b>(a)</b>	What is dependency injection? Explain in detail.	<b>03</b>
	<b>(b)</b>	What is MVC architecture? Explain Spring architecture with neat sketch.	<b>04</b>
	<b>(c)</b>	Explain the architecture of Spring Framework with its all container in detail.	<b>07</b>

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