

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.

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

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

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