GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–VI (NEW) EXAMINATION – SUMMER 2023 Subject Code:3161609 Date:14-07-2023 Subject Name:Enterprise Application Development								
Time:10:30 AM TO 01:00 PM Total Ma								
Instructions:								
<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> </ol>								
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4. Simple and non-programmable scientific calculators are allowed.								
Q	).1	(a)	What are the various components of J2EE architecture?	application	03			
		<b>(b)</b>	What is ORM Framework and how is JPA related	to that?	04			
		(c)	Explain JSF request processing life cycle.		07			
C	).2	(a)	Write a code snippet to explain the use of JSF vali	dators	03			
	2.4	(a) (b)	Explain the configuration of web application using		03			
		( )	to use servlet and EJB.					
		(c)	Explain the life cycle of stateful and stateless sessi	on beans.	07			
		(a)	OR		07			
		( <b>c</b> )	What are transaction attributes? Which transaction should be used in which situations?	on auridutes	07			
Q	<b>).3</b>	<b>(a)</b>	What is JMS? What are the components of JMS A		03			
		(b)	How does a sender application transport/send a mes JMS?	ssage through	04			
		(c)	What is JSON-B? Demonstrate the use of JSON-	B for parsing	07			
		(0)	java objects to/from JSON.	b for purshing	07			
			OR					
Ç	<b>).3</b>		What advantages does JSON have over XML?		03			
		(b)	Write a JSON code to convert a string into a Date function.	using reviver	04			
		(c)	What is Message Queue? Briefly explain Mes	sage Service	07			
			Architecture.	8				
6				0 11 4	03			
, C	<b>).4</b>	<b>(a)</b>	What do you understand by RESTful Web Servic the features of it?	es? what are	03			
		(b)	What do you mean by dependency injection in I	EJB? Explain	04			
			annotations which are used for dependency injection	-				
		(c)	Explain the working of Microservice Architecture	in J2EE.	07			
ſ	1	(c)	OR What are the law requirements of a LAX WS	Wab Samias	02			
, C	).4	(a)	What are the key requirements of a JAX-WS endpoint?	web service	03			
		<b>(b)</b>	What is JPA? Explain persistence life cycle of an	object?	04			
		(c)	Explain developing and deploying an EJB Web set	rvice.	07			

Q.5	(a)	Differentiate ServletConfig and ServletContext.				
-	<b>(b)</b>	Write a code to implement Open event for a connection using				
		WebSocket.				
	(c)	Demonstrate the use of Servlet Filter.	07			
		OR				
Q.5	<b>(a)</b>	What is Servlet Listener? How will you use it?	03			
	<b>(b)</b>	Write a code to implement WebSocket actions send() and close()	04			
		for an open connection using WebSocket.				
	(c)	Demonstrate the use of ServletRequestDispacher and its	07			
		methods include and forward.				

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