Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-VIII • EXAMINATION – SUMMER 2013

			Date: 09/05/2013	
Subject Name: Service Oriented Computing         Time: 10:30 am TO 01:00 pm       Total Marks:         Instructions:       1. Attempt all questions.         2. Make suitable assumptions wherever necessary.       3. Figures to the right indicate full marks.				
Q.1	(a)	<ul> <li>Answer the following questions.</li> <li>1. Why peers are called -servantsø?</li> <li>2. What is strict scheduling?</li> <li>3. What is relaxing serialization?</li> <li>4. How does a co-operative system function?</li> <li>5. Write in brief -Semantic Webø</li> <li>6. Write a brief note on Model Driven Architecture.</li> <li>7. Write a note on Grid and Utility Computing.</li> <li>8. Define OWL 6 RDF 6 RDFS.</li> </ul>	01 01 01 02 02 03 03	
Q.2	(a) (b)	Explain architectural model for Web service. Explain all terms in detail. Explain autonomy, heterogeneity & dynamism related to Open Environments.	07 07	
	(b)	<b>OR</b> Explain architecture for composed services with a suitable example.	07	
Q.3	(a) (b)	Describe SOAP request and response model with an example. Write a difference between J2EE and .NET architecture in detail. <b>OR</b>	07 07	
Q.3	(a) (b)	How ACID properties are implemented in distributed transaction? Explain with an example. Explain BPEL4WS and ebXML.	07 07	
Q.4	(a) (b)	Write a note on Service life cycle. Explain WSDL structure. OR	07 07	
Q.4	(a) (b)	List all execution models. Explain Messaging and Jini in detail. Explain Agent based architecture in detail, showing the de facto standard agent types.	07 07	
Q.5	(a) (b)	Discuss limitation of SOAP, WSDL and UDDI. Discuss Multi agent systems w.r.to Agent communication, languages and protocols.	07 07	
Q.5	<b>(a)</b>	<b>OR</b> Explain WS ó Coordination & BTP in detail.	07	
	(b)	<ul><li>Answer the following questions.</li><li>1. Explain two-phase locking protocol for locking.</li><li>2. Explain Rules for Collaboration.</li></ul>	04 03	

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