Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VIII EXAMINATION - SUMMER 2016** 

	Subje	ect Code:181605 Date:16/05/2016	
	-	ect Name:Service Oriented Computing (Department Elective - II) :10:30 AM to 01:00 PM Total Marks: 70 ctions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	<ul><li>(a)</li><li>(b)</li></ul>	Explain the ACID properties reviewed in the Context of Service Oriented Architectures and in the Context of distributed transaction Describe SOAP request and response model with an example.	07 07
Q.2	(a) (b)	Draw the schematic general architectural model for Web Service. Explain SOAP request scenario for a customer orders goods from a supplier Define Composing Service and also discuss challenges for Service composition	07 07
	<b>(b)</b>	OR Write a short note on : OWL	07
Q.3	(a) (b)	Explain Multiagent architecture and its life cycle management What are the basic elements of SOA? How does SOA impose Loose Coupling, Granularity and Long life time in realizing the requirements?  OR	07 07
Q.3	(a) (b)	Explain UDDI API for registry access.  Write a WSDL file for a phone book service that supports the operations GetPhoneNumber and SetPhoneNumber. The operation GetPhoneNumber accepts a name parameter of type String and returns a phone number of type String, whereas SetPhoneNumber accepts a name parameter of type String and a phone number parameter of type String and returns nothing.	07 07
Q.4	(a) (b)	What is RDF? Explain RDF document in detail Answer the following questions.  1. Explain two-phase locking protocol for locking.  2. Explain Rules for Collaboration.	07 07
Q.4	(a) (b)	What is peer-to-peer computing? Explain in brief the models of peer-to-peer computing.  What is ontology? Explain OWL constructor and Axioms with suitable example	07 07
Q.5	(a) (b)	Explain the Agent based system architecture showing the de facto standard agent types. List importance of BPEL4WS	07 07
Q.5	, ,	OR  Differentiate between .Net Architecture and J2EE Architecture in the context of Enterprise Architecture.  Explain role of XML in distributed computing	07 07

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