

GUJARAT TECHNOLOGICAL UNIVERSITY
B.E. - SEMESTER-VIII - EXAMINATION - SUMMER 2014

Subject Code: 181605

Date: 27-05-2014

Subject Name: Service Oriented Computing

Time: 10:30 am TO 01:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q-1	(a)	Draw the schematic general architectural model for Web Service. Explain SOAP request scenario for a customer orders goods from a supplier.	07
	(b)	What is peer-to-peer computing? Explain in brief the models of peer-to-peer computing.	07
Q-2	(a)	Differentiate between .Net Architecture and J2EE Architecture in the context of Enterprise Architecture.	07
	(b)	Write a short note on : RDP	07
OR			
	(b)	Write a short note on : OWL.	07
Q-3	(a)	Explain UDDI API for registry access.	07
	(b)	Write a short note on : WSDL.	07
OR			
Q-3	(a)	Compare RESTful Web Service and SOAP based Web Service.	07
	(b)	Explain SOAP request and SOAP response with suitable example.	07
Q-4	(a)	Explain the ACID properties reviewed in the Context of Service Oriented Architectures and in the Context of distributed transaction.	07
	(b)	What are the basic elements of SOA? How does SOA impose Loose Coupling, Granularity and Long life time in realizing the requirements?	07
OR			
Q-4	(a)	How SOAP handles Exceptions using fault, exceptions and throw?	07
	(b)	Explain the architecture for transactions over composed services. Explain the properties of composed transactions in brief.	07
Q-5	(a)	Explain the Agent based system architecture showing the de facto standard agent types.	07
	(b)	Write a short note on : (i) CORBA (ii) JINI	07
OR			
Q-5	(a)	Explain Multi-agent architecture and its life cycle management.	07
	(b)	Write a short note on : (i) WSCL (ii) Model Driven Architecture	07

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