

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - 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 : RDF **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**
