

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-VIII Examination May 2012****Subject code: 181605****Subject Name: Service Oriented Computing****Date: 08/05/2012****Time: 10.30 am – 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) Explain UDDI API for registry access **07**
 (b) Give importance of WSDL? Also discuss the various element of WSDL document **07**
- Q.2** (a) Explain Web service architecture in detail **07**
 (b) Compare RESTful Web Service vs. SOAP based Web Service. **07**
- OR**
- (b) Compare J2EE architecture and .NET architecture **07**
- Q.3** (a) Define and explain following with respect to SOC **08**
 1. SOA
 2. Loose coupling
 3. workflow
 4. Granularity
 (b) Explain SOAP request and SOAP response with sample example code **06**
- OR**
- Q.3** (a) What is RDF? Explain RDF document in detail **07**
 (b) Discuss various views to understand the services and compare these views. **07**
- Q.4** (a) Define Composing Service and also discuss challenges for Service composition **07**
 (b) Write short note on following **07**
 1. Model Driven Architecture
 2. ebXML
- OR**
- Q.4** (a) What is ontology? Explain OWL constructor and Axioms with suitable example **07**
 (b) Explain the Architecture for performing transaction over composed service and also describe properties of composed transaction **07**
- Q.5** (a) Explain Web Service Choreography Interface in detail **07**
 (b) Give importance of Agent communication language and explain Contract Net protocol **07**
- OR**
- Q.5** (a) Explain Multiagent architecture and its life cycle management **07**
 (b) List importance of BPEL4WS **07**
