

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII • EXAMINATION – WINTER • 2014****Subject Code: 181605****Date: 25/11/2014****Subject Name: Service Oriented Computing****Time: 02:30 pm - 05:00 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) Define Web Service. Explain architecture model of Web Service. **07**
(b) Compare architecture of J2EE and .NET. **07**

- Q.2** (a) What are the benefits of Service Oriented Computing? Discuss Autonomy, Dynamism and Heterogeneity in Open Environments. **07**
(b) Explain SOAP request and SOAP response with example. **07**

OR

- (b) Write XML Schema file for maintaining an employment service which contains company name, location (such as city and state), annual salary, type (permanent or internship), degree requirements (BE, ME, or PhD), and years of experience required. **07**

- Q.3** (a) What is modelling? Describe various dimensions of abstraction in brief. **07**
(b) What is RDF? Explain RDF document in detail. **07**

OR

- (a) Prepare OWL document for a travel agency. Use following concepts. Enumerations, Restrictions, Boolean expressions **07**
(b) Explain composing of services and challenges in composition. **07**

- Q.4** (a) Explain registry access with UDDI. **07**
(b) Compare following terms: **07**
(1) Interoperation Vs. Integration
(2) RPC Vs. Document Orientation

OR

- (a) Discuss business level conversation using Web Services Conversation Language. **07**
(b) Discuss role of Business process languages. **07**

- Q.5** (a) Discuss transaction over composed service. **07**
(b) Explain Jini Computing and Grid computing. **07**

OR

- (a) Describe collaboration with Multiagent systems. **07**
(b) Explain significance of WSDL with its major elements. **07**
