

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VIII • EXAMINATION – SUMMER 2013

Subject Code: 181605**Date: 09/05/2013****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)** Answer the following questions.
1. Why peers are called "servants"? **01**
 2. What is strict scheduling? **01**
 3. What is relaxing serialization? **01**
 4. How does a co-operative system function? **01**
 5. Write in brief "Semantic Web". **02**
 6. Write a brief note on Model Driven Architecture. **02**
 7. Write a note on Grid and Utility Computing. **03**
 8. Define OWL, RDF, RDFS. **03**
- Q.2 (a)** Explain architectural model for Web service. Explain all terms in detail. **07**
- (b)** Explain autonomy, heterogeneity & dynamism related to Open Environments. **07**
- OR**
- (b)** Explain architecture for composed services with a suitable example. **07**
- Q.3 (a)** Describe SOAP request and response model with an example. **07**
- (b)** Write a difference between J2EE and .NET architecture in detail. **07**
- OR**
- Q.3 (a)** How ACID properties are implemented in distributed transaction? Explain with an example. **07**
- (b)** Explain BPEL4WS and ebXML. **07**
- Q.4 (a)** Write a note on Service life cycle. **07**
- (b)** Explain WSDL structure. **07**
- OR**
- Q.4 (a)** List all execution models. Explain Messaging and Jini in detail. **07**
- (b)** Explain Agent based architecture in detail, showing the de facto standard agent types. **07**
- Q.5 (a)** Discuss limitation of SOAP, WSDL and UDDI. **07**
- (b)** Discuss Multi agent systems w.r.to Agent communication, languages and protocols. **07**
- OR**
- Q.5 (a)** Explain WS-Coordination & BTP in detail. **07**
- (b)** Answer the following questions.
1. Explain two-phase locking protocol for locking. **04**
 2. Explain Rules for Collaboration. **03**
