

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – II • EXAMINATION – WINTER • 2014****Subject code: 1722301****Date: 02-12-2014****Subject Name: Service Oriented Architecture****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)** Answer the following questions.
1. Differentiate between Integration and Interoperation. **04**
 2. Write a note on BPEL. **04**
 3. What is the role of XML in the evolution of SOA? **03**
 4. Write in brief: Model Driven Architecture. **03**
- Q.2 (a)** Discuss WS-notification framework using WS-Base Notification, WS-Topics and WS-Brokered Notification. **07**
- (b)** How Service Orchestration works? Explain with a suitable example. **07**
- OR**
- (b)** Discuss SOA standards stack and key principles of SOA. **07**
- Q.3 (a)** Describe steps of Web service implementation using SOAP, WSDL and UDDI. **07**
- (b)** Compare J2EE and .NET architecture and their development features in detail. **07**
- OR**
- Q.3 (a)** Explain WSDL structure. Design WSDL for one web service example. **07**
- (b)** How SOAP request and response model works? Give an example. **07**
- Q.4 (a)** How WS-security can be implemented using XML-Signature, XML-encryption and SAML? **07**
- (b)** What are WS-Policy and its role with WS-PolicyAttachments and WS-PolicyAssertions constituents? **07**
- OR**
- Q.4 (a)** Explain RPC (Remote Procedure Call) with a suitable example. **07**
- (b)** Discuss limitation of SOAP, WSDL and UDDI. **07**
- Q.5 (a)** What is Service Choreography? Discuss its features and working. **07**
- (b)** Explain various aspects of Service Composition architecture. How Service gets executed? **07**
- OR**
- Q.5 (a)** Answer the following questions.
1. Explain in brief: Atomic Transactions. **04**
 2. Give an example of WS-Eventing. **03**
- (b)** Answer the following questions.
1. How to publish and discover web service using UDDI? Explain in brief. **05**
 2. Write brief note on WS-Metadata Exchange. **02**
