

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. Sem. – IInd - Examination – June/July- 2011****Subject code: 1722301****Subject Name: Service Oriented Architecture****Date: 22/06/2011****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) Discuss the J2EE Architecture and Microsoft .Net Architecture and Compare both in the Context of Web service oriented architectural style **07**
- (b) How UML and Model Oriented Architectures help in modeling of software and show how it distinguish between PIM and PSM models **07**

- Q.2** (a) Consider the basic web services architecture and its main components such as WSDL, SOAP and UDDI and list a total of shortcomings of three components **07**
- (b) What is Service and its role in Service Oriented Design, What are Major benefits of Service Oriented Computing and show all Services are standardized? **07**

OR

- (b) Compare the Service Orientation and Object Orientation and show the Example Template for How General Purpose Sorting Service Can be provided using both **07**

- Q.3** (a) Explain Basic WS+ specification elements for WS-Security (including XML-Encryption, XML-Signature, and SAML) **07**
- (b) What is Service Life Cycle and Show the activities in Service Life Cycle **07**

OR

- Q.3** (a) Show Various XML elements types and XML Attribute Types and Develop Sample XML DTD using XML elements and Attribute Types **07**
- (b) What is Structure of WSDL and How Various XML Schema Elements Define the WSDL document Structure, Show with Example using A Marks sheet Document **07**

- Q.4** (a) What is Message Exchange Pattern and How it is significant for Software Development using Web Service, Give an Example **07**
- (b) Define Following **07**
- WS-ReliableMessaging,
 - WSPolicy
 - WS-PolicyAttachments
 - WS-PolicyAssertions
 - WSMetadataExchange

OR

- Q.4** (a) Which one of the Property in WSDL defines the Style and Show and Compare RPC versus Document Orientation using Style Attribute **07**
- (b) Compare Two different Business Process Composing Methods using Orchestration, Choreography and Show the Application for each of it **07**
- Q.5** (a) What is BPEL and How BPEL is used to Model Business Process **07**
- (b) What are methods for publishing Web Services and show their basic **07**
- OR**
- Q.5** (a) Explain the Significance of WS-Addressing Specification while Designing and Consuming the web Service **07**
- (b) What is SOAP Protocol and How SOAP plays a role Web Service Interactions **07**
