

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – II • EXAMINATION – WINTER 2012

Subject code: 1722301**Date: 29-12-2012****Subject Name: Service Oriented Architecture****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) Write and explain rules for well-formed XML document. Also write application of XML. **07**

(b) List and explain characteristics of good service. **07**

Q.2 (a) What is role of registry in SOA. Write a note on UDDI. **07**

(b) Explain following SOA design principles. **07**

1. Accommodation of change
2. Separation of concerns.

OR

(b) List and explain challenges to SOA. **07**

Q.3 (a) Draw and explain SOA Reference Architecture. **07**

(b) Write a note on service Orchestration. **07**

OR

Q.3 (a) List and explain various activities involved in SOA methodology. **07**

(b) Write a note on BPEL. **07**

Q.4 (a) Write and explain service life cycle. **07**

(b) What is full name of WSDL? Explain various parameters of WSDL file with example. **07**

OR

Q.4 (a) Write a note on Model driven architecture. **07**

(b) Explain various approaches available for service realization. **07**

Q.5 (a) Student result is saved in XML file as shown below. Write XSL style sheet to show result in tabular format. **07**

```
<student id="111">  
<subject code="111">77</subject>  
<subject code="112">59</subject>  
<subject code="113">63</subject>  
</student>
```

(b) Write a program to create web service. It takes one number as parameter and replies with number is odd or even. Also write client program. Note: You can write in Java or .NET **07**

OR

Q.5 (a) Write XML and DTD to save employee details (name, city, phone no, email) with following constraints. **07**

1. Name is compulsory field
2. Employee can have 0 or more phone no

(b) Write notes on following. **07**

1. WS-Addressing
 2. WS-Policy
- *****