

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014****Subject code: 1722301****Date: 16-06-2014****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) Write XSD file for emp.xml where empId is mandatory and unique, Pancard no is mandatory, contact number should be zero or more. Also write sample emp.xml file. **07**
- (b) Explain SOA Reference Architecture. **07**
- Q.2** (a) Write XSL code to print only those item list which has price between 200 to 500 in tabular manner from item.xml. Also write sample item.xml file. **07**
- (b) Discuss J2EE Architecture with each modules **07**
- OR**
- (b) Discuss .NET Architecture with each modules **07**
- Q.3** (a) What is web service? How it differ than website. Explain each WSDL tag in details with example. **07**
- (b) Write an XML file to generate HSC mark-sheet. Also write xsd and xslt files to validate and represent it on web browser in tabular manner. **07**
- OR**
- Q.3** (a) What is SOAP? Explain SAOP envelope, header, body, types of faults with one SOAP sample example. **07**
- (b) Compare Enterprise Architecture and SOA. Show the mapping between major components of SOA with EA infrastructure elements. **07**
- Q.4** (a) What is WS-Security and WS Policy? **07**
- (b) Explain concept of distributed computing. Compare centralize computing with distributed computing. **07**
- OR**
- Q.4** (a) Explain the term : (i)WS-Notification Framework (ii) WS-Addressing **07**
- (b) Write WSDL Code to get maximum value among three different values **07**
- Q.5** (a) Explain Service Life Cycle with example. **07**
- (b) Differentiate DTD and XSD. Write an XML, DTD and XSD file for GTU students records. **07**
- OR**
- Q.5** (a) Explain 4+1 software architectural views. **07**
- (b) Explain term : (i) Orchestration (ii) Choreography **07**
