

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. 1ST Semester Remedial Examination –July- 2011****Subject code: 710101****Subject Name: Service Oriented Architecture****Date: 07/07/2011****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.

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|------------|---|-----------|
| Q.1 | (a) Explain Service life cycle. | 05 |
| | (b) Compare Service registry and Service repository. | 02 |
| | (c) Explain WSDL in detail. | 07 |
| Q.2 | (a) Draw a Service hierarchy of a business process to provide quotes for automobile insurance policies. | 07 |
| | (b) Explain how we can achieve Loose Coupling in SOA. | 07 |
| | OR | |
| | (b) Explain SOA methodology in detail. | 07 |
| Q.3 | (a) Explain BMM in detail. | 04 |
| | (b) Draw identity diagram for mobile and book. | 04 |
| | (c) Explain WS- ReliableMessaging in detail. | 06 |
| | OR | |
| Q.3 | (a) Compare enterprise business architecture and project business architecture. | 04 |
| | (b) Explain importance of semantics in SOA. | 04 |
| | (c) Explain WS- Policy in detail. | 06 |
| Q.4 | (a) Divide following insurance system's services into Utility, Domain, Business, Enterprise and Foundation Services.
<i>Orchestration, Risk, Record, Product, Phone Book, Issue policy, Fraud Detection, Authorization, Sales Tracking, Scheduling, Billing, Logging</i> | 06 |
| | (b) Define SLA, SAML, UDDI, and BPMN in terms of SOA. | 04 |
| | (c) Compare Orchestration and Choreography. | 04 |
| | OR | |
| Q.4 | (a) Explain in brief Basic Service Architecture. | 04 |
| | (b) Explain various techniques for Service Composition implementation. | 06 |
| | (c) Define SCA, BPM, SOAP, and REST in terms of SOA. | 04 |
| Q.5 | (a) Explain ESB architecture. | 07 |
| | (b) Draw a sample MVC pattern for building enterprise solution. | 03 |
| | (c) List all web service security standards and specification. | 04 |
| | OR | |
| Q.5 | (a) Explain various implementation techniques for Service Integration in brief. | 07 |
| | (b) Define BAM in terms of the "Five Rs". | 04 |
| | (c) Explain Mandatory Access Control filtering in brief. | 03 |
