

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII(NEW) • EXAMINATION – WINTER 2016

Subject Code:2170713**Date:25/11/2016****Subject Name:Service Oriented Computing (Departmental Elective - II)****Time:10.30 AM to 1.00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	Short Questions	14
	1 What do you mean by service oriented?	
	2 Define Service.	
	3 Is WSDL document Well formed?	
	4 What do you mean by W3C recommendation?	
	5 Differentiate Integrate and Interoperation.	
	6 What is Well Formed XML?	
	7 Enlist Application of XML.	
	8 Explain message in WSDL.	
	9 What are limitations of SOAP?	
	10 Explain fire and forget message exchange pattern.	
	11 Explain Syntax for Attribute in DTD.	
	12 What is business Services.	
	13 What do you mean by Loosely couple System.	
	14 Is SOAP language Independent?	
Q.2	(a) Explain Challenges for service Composition.	03
	(b) What is UDDI? Explain Green, yellow and White pages.	04
	(c) Write XML document for Library Information System and also write DTD to validate it.	07
	OR	
	(c) Write XML document for Students Information System and also write XSD to validate it.	07
Q.3	(a) Explain benefits of SOA.	03
	(b) Explain Model Driven Architecture in brief.	04
	(c) Write SOAP request and response document to retrieve students Information using enrolment number.	07
	OR	
Q.3	(a) Explain various faults of SOAP.	03
	(b) Explain use case for configuration and dynamic Selection for SOA.	04
	(c) Write WSDL for request and response document to retrieve Book Information using book id.	07
Q.4	(a) What is choreography? Explain in brief.	03
	(b) Explain Entity-centric business and task centric business services.	04
	(c) Explain Role of orchestration in SOA?	07
	OR	
Q.4	(a) What is role of JAX-RPC in Web Services?	03
	(b) Differentiate SOAP and REST web services.	04
	(c) Explain JAXB life Cycle.	07

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| Q.5 | (a) | Explain JAXR Architectural Components. | 03 |
| | (b) | What are challenges in creating web services interoperability. | 04 |
| | (c) | Explain WS-BPEL and WS-Addressing. | 07 |
| | | OR | |
| Q.5 | (a) | Explain Atomic transaction for SOA. | 03 |
| | (b) | Explain WS-Coordination in brief. | 04 |
| | (c) | Explain XML-Encryption and XML-Signature in brief. | 07 |
