GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VII (NEW) EXAMINATION – WINTER 2018

Subject Code: 2170713   **Date: 29/11/2018**
Subject Name: Service Oriented Computing
Time: 10:30 AM TO 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.

			MARKS
Q.1	(a)	Differentiate between client-server and distributed architecture.	03
	(b)	Draw and explain architecture model of web service in short.	04
	(c)	What is SOA? Explain characteristics of SOA in detail.	07
Q.2	(a)	Explain challenges for service composition.	03
	(b)	Compare SOAP based web service and RESTful web service.	04
	(c)	Draw and explain .NET architecture.	07
		OR	
	(c)	Explain in detail about XML document Structure and XML schema.	07
Q.3	(a)	What are the promises of SOA?	03
	(b)	What is MEP? Explain common patterns in brief.	04
	(c)	Write a note on: Service life cycle.	07
		OR	
Q.3	(a)	What is RDF? Explain in brief.	03
	(b)	Write short note on following. 1. Model driven architecture 2. Web services interoperability technologies	04
	(c)	What is importance of WSDL? Discuss various elements of WSDL document with example.	07
Q.4	(a)	What is Orchestration? Explain in brief.	03
	(b)	Explain following in brief: JAXR, JAXB.	04
	(c)	Describe SOAP request and response model with an example.	07
		OR	
Q.4	(a)	What is choreography? Explain WS-CDL.	03
	(b)	Explain entity-centric business and task-centric business services.	04
	(c)	What is UDDI? Explain green, yellow and white pages.	07
Q.5	(a)	Explain WS-security and WS-Policy.	03
	(b)	Differentiate followings: 1. Interoperation vs. Integration 2. RPC vs. Document orientation	04
	(c)	Draw and explain J2EE architecture with suitable diagram.	07
		OR	
Q.5	(a)	Explain role of XML in distributed computing.	03
	(b)	Draw and explain service modeling process steps.	04
	(c)	Explain WS-BPEL and WS-Addressing.	07

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