Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

C1-2		BE - SEMESTER-VII (OIG) EXAMINATION – WINTER 2019	1/2010
•		ode: 170708 Date: 23/11	1/2019
U		ame: Web Data Management	
Time	e: 10:3	30 AM TO 01:00 PM Total Mar	ks: 70
Instru	ctions:		
		Attempt all questions.	
		Take suitable assumptions wherever necessary.	
	3. F	igures to the right indicate full marks.	
Q.1	(a)	Describe term Ontology. How RDF can be used for ontology.	07
Q.I	(b)	Explain Document Type Definition with one example. Link with XML	07
	()	document and demonstrate different restrictions user can apply on XML	
		using DTD.	
Q.2		Discuss use of Xml Style Sheet with XML document with one example.	07
	(b)	Compare DTD and XSD. Give example of each one.	07
	(b)	OR What is XPath Axes? Describe following Axes in brief.	07
	(0)	1) Axes 2) Sibling 3) descendant 4) parent 5) attribute 6) self 7)	U7
		preceding.	
Q.3	(a)	Discuss how XML technology is useful for Web data management.	07
	(b)	Explain web graph mining with an example.	07
		OR	
Q.3	(a)	Discuss FLWOR with respect to XQuery with advanced features. Give	07
	(b)	one example. What is VOyen's Describe descend collection () function with suitable	07
	(b)	What is XQuery? Describe doc() and collection() function with suitable example.	07
		cxampic.	
Q.4	(a)	Explain Web Frawling process in details.	07
	(b)	Describe Wilure management in distributed system.	07
		OR	
Q.4		Differentiate ranked trees and unranked trees.	07
	(b)	Explain XLink and XPointer with example.	07
0.5	(.)		07
Q.5		Discuss Required properties of a distributed system.	07 07
	(b)	Explain in detail: Ontology-based mediators. OR	07
Q.5	(a)	Explain Fragmentation of XML document in detail.	07
٧.5	(b)	Explain following terms with example in Distributed system.	07
	. /	1) Reliability 2) Scalability 3) Availability 4) Efficiency	
