GUJARAT TECHNOLOGICAL UNIVERSITY				
BE - SEMESTER-VII (OLD) EXAMINATION – SUMMER 2019				
Subject Code: 170708 Date: 10/05/2019				
Ti	•		Total Marks: 70	
<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>				
Q.1	(a) (b)	Discuss: XML fulfill requirements for semi structured data model.What is XPath Axes? Describe following Axes in brief.1. Sibling3. Attribute5. ancestor2. Descendant4. preceding6. child	07 07	
Q.2	(a) (b)	Describe doc() and collection() function with suitable example. Explain XUpdate With Example.	07 07	
	(b)	OR Explain FLWOR expression based on XQuery.	07	
0.1				
Q.3	(a) (b)	Discuss DTD and XSD in detail. What is graph bisimulation? Explain in Detail. OR	07 07	
Q.3	(a) (b)	Describe Failure management in distributed system. Differentiate ranked trees and unranked trees.	07 07	
Q.4	(a) (b)	Describe RDF and RDFS in detail. Explain Web crawling process in details.	07 07	
Q.4	(a) (b)	Explain Web graph mining and hot topics in web search. Explain Global-as-view (GAV) and Local-as-view (LAV) mediation with example.	07 07	
Q.5	(a) (b)	<ul> <li>How data can be exchanged between applications using XML.</li> <li>What is XPath?</li> <li>Consider bib.xml and write XPath for following.</li> <li>1. Find all books with a price of \$39.95</li> <li>2. Find the title of book where last name of author is Stevens</li> <li>3. Find the title of all books published before 1995</li> </ul>	07 07	
Q.5	(a) (b)	<ul> <li>Explain Recovery techniques of a Distributed system.</li> <li>What is XQuery?</li> <li>Consider bib.xml and write Xquery for following <ol> <li>List books published by Addison-Wesley after 1991, including their year and title.</li> </ol> </li> </ul>	07 07	

2. Delete year attribute.

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