Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VII EXAMINATION – SUMMER 2016

Subject Code:170708   **Date:05/05/2016**
Subject Name: Web Data Management (Department Elective-1)
Time:02:30 PM to 05:00 PM   **Total Marks: 70**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain Web Data Management with XML.	**07**
	(b)	Discuss XPath and XQuery With example.	**07**
Q.2	**(a)**	What is Semi Structured data? XML document is a semi structured model- Justify with suitable example.	**07**
	(b)	What is XML Typing? Why it is essential in web data management.	**07**
		OR	
	(b)	Explain XLink and XPointer with example.	**07**
Q.3	**(a)**	Compare DTD and XSD.	**07**
	(b)	Explain XSL in detail.	**07**
		OR	
Q.3	**(a)**	What is Ontology? Explain Ontology-based mediators.	**07**
	(b)	Describe Failure management in distributed system.	**07**
Q.4	**(a)**	Explain following terms: 1.Graph Bisimulation 2.OWL	**07**
	(b)	Explain Web crawling process in details.	**07**
		OR	
Q.4	**(a)**	Explain Web graph mining and hot topics in web search.	**07**
	(b)	Discuss FLOWER expression with example.	**07**
Q.5	**(a)**	How data can be exchanged between application using Xml.	**07**
	(b)	**GTUStudents.xml** is given, write Xpath for following: a) Select all the name of all students. b) Select the name of the first student node. C) Select all the name nodes with a **CPI** higher than 8.	**07**
		OR	
Q.5	**(a)**	Different between ranked trees and unranked trees.	**07**
	(b)	**GTUStudents.xml** is given, write FLOWER for following: a) Select all the name of all students where branch is **COMPUTER**. b) Select all the name nodes with a CPI higher than 7. c) Select all the city nodes.	**07**

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