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

Subject Code: 170708   **Date: 18/11/2016**
Subject Name: Web Data Management (Department Elective-1)
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.

Q.1	**(a)**	Explain in Detail Web Data Management with XML	**07**
	(b)	How semi structure data model resolves issues in existing web data management?	**07**
Q.2	**(a)**	What is XPath? Describe XPath axes in brief.	**07**
	(b)	Write sort note on FLWOR expression with suitable example.	**07**
		OR	
	(b)	What is XQuery? Describe doc() and collection() function with suitable example.	**07**
Q.3	**(a)**	Explain Automata on Ranked Trees in detail.	**07**
	(b)	What is XML Typing? Why it is essential in web data management.	**07**
		OR	
Q.3	**(a)**	Explain XML evaluation techniques.	**07**
	(b)	Write sort note on XML Schema.	**07**
Q.4	**(a)**	What is Ontology? Describe RDF, RDFS in Brief.	**07**
	(b)	Why querying data through ontology is different from querying traditional DBMS.	**07**
		OR	
Q.4	**(a)**	Explain the Bucket algorithm of Local-as-view mediation.	**07**
	(b)	Write sort note on Peer-to-peer data management system.	**07**
Q.5	**(a)**	Describe Failure management in distributed system.	**07**
	(b)	Explain Hash-based distributed access structure in brief.	**07**
		OR	
Q.5	**(a)**	Write sort note on Distributed system.	**07**
	(b)	Explain following terms in brief:	**07**
		1. Web Crawler	
		2. OWL	

****