Seat No.: Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2017 Subject Code: 170708 Date: 29/04/2017 Subject Name: Web Data Management (Department Elective-1)				
	•	9	<b>Total Marks: 70</b>	
In	2	ions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.		
Q.1	(a)	What is semi structured data? "XML document is a semi structured data model"- Justify with suitable example.	07	
	<b>(b)</b>		07	
Q.2	(a) (b)	Discuss XPath and XQuery With examples. Write sort note on FLWOR expression with suitable example.	07 07	
		OR		
	<b>(b)</b>	Explain Advanced features of XQuery with example.	07	
Q.3	(a)	Explain Automata on Ranked Trees in detail.	07	
	<b>(b)</b>	Write DTD for the given CD_catalog.xml file	07	
		OR		
Q.3	(a)	Explain XML evaluation techniques.	07	
	<b>(b)</b>	Explain XSL in detail.	07	
Q.4	(a)	What is Ontology? Describe RDF, RDFS in Brief.	07	

OR

Explain Web crawling process in details **Q.4** (a) **07 (b)** Write sort note on Peer-to-peer data management system. **07** 

Why querying data through ontology is different from querying traditional

(a) Describe Failure management in distributed system. **Q.5** 07 **07** 

**(b)** Explain Ontology based mediation with example.

OR

(a) Explain Recovery techniques of a Distributed system. Q.5

(b) For given CD\_catalog.xml, Write FLOWER for following:

1. Select all title where country is USA

2. Select all artist if price of cd is higher than \$11.00.

3. Remove all CD records if year is 1985.

## CD\_catalog.xml:

<catalog><cd>

**(b)** 

DBMS.

```
<title>Empire Burlesque</title>
       <artist>Bob Dylan</artist>
       <country>USA</country>
       <price>10.90</price>
       <year>1985</year>
</cd> </catalog>
```

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