www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION - WINTER 2018

Subject Code: 170708	Date: 15/11/2018

Subject Name: Web Data Management

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)	What is DTD? How DTD is declared in XML document? Explain with an example.	07
	(b)	Explain XLink and XPointer in detail, along with an example.	07
Q.2	(a) (b)	What is FLWOR expression? Explain it with syntax and suitable example. Define: XQuery. Explain XQuery syntax with an example. OR	07 07
	(b)	Discuss required properties of a distributed system.	07
Q.3	(a) (b)	Explain web graph mining with an example. Explain XML query evaluation techniques in brief. OR	07 07
Q.3	(a) (b)	Explain Automata on Ranked Trees. Write a short note on Peer-to-Peer data management system.	07 07
Q.4	(a) (b)	Explain Failure management in distributed system. Explain following terms: i. OWL ii. Web Crawler	07 03 04
Q.4		What is semi structured data? "XML document is a semi structured data model"-Justify with suitable example. What is Ontology? Describe RDF, RDFs in brief.	07 07
Q.5	(a)	What is XML Typing? Why it is essential in web data management? What is XPath? Describe XPath data model with an example.	07 07
		OR	
Q.5	(a)	What is the goal of data integration? Differentiate Virtual versus Materialized data integration	07
	(b)	Write down the steps to develop ontology. Discuss the rules of thumb for ontology development.	07
