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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VIII (New) EXAMINATION - WINTER 2019

Subject Code: 2180713

Subject Name: Web Data Management

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Date: 29/11/2019

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 on example	03
	(b)	with an example. Write sort note on XML Schema.	04
	(b)		-
	(c)	Explain XML Data Model with example.	07
Q.2	(a)	Explain Ontology based mediation with example	03
	(b)	Differentiate well-formed and valid XML document.	04
	(c)	What is XPath? Describe XPath data model with an example.	07
		OR	
	(c)	Explain XQuery syntax with suitable example.	07
Q.3	(a)	Differentiate between ranked trees and unranked trees.	03
-	(b)	Explain OWL with an example.	04
	(c)	What is web crawling? Explain in details.	07
		OR 🔨	
Q.3	(a)	Explain following terms with example in Distributed system. 1)	03
-		Reliability 2) Scalability 3) Availability.	
	(b)	Discuss FLWOR expression with example.	04
	(c)	What is Ontology? Discuss RDF with example.	07
Q.4	(a)	Discuss failure management in distributed system.	03
	(b)	What is the use of Graph Bisimulation in Web Data Management?	04
		Discuss in brief	
	(c)	Explain web graph mining with an example.	07
		OR	
Q.4	(a)	Explain filtering with an example.	03
	(b)	Discuss required properties of distributed system.	04
	(c)	Explain XML evaluation techniques.	07
Q.5	(a)	What is the significance of tree based form and serialized form of	03
		XML?	
	(b)	Explain Fragmentation of XML document in detail.	04
	(c)	Discuss Required properties of a distributed system	07
		OR	
Q.5	(a)	Write down basic building blocks of XML	03
	(b)	Explain XLink and XPointer with example.	04
	(c)	Discuss the goals of Data integration in web data management.	07
