Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VIII(NEW) EXAMINATION – SUMMER 2019

Subject Code:2180713   **Date:17/05/2019**
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.**

			MARKS
Q.1	**(a)**	Write a note on XSL.	**03**
	(b)	Discuss XLink and XPointer in brief.	**04**
	(c)	Explain Web Data Management with XML in detail.	**07**
Q.2	**(a)**	Write a short note on XML Schema.	**03**
	(b)	"An XML document is a labeled, unranked, and ordered tree". Explain it.	**04**
	(c)	What is semi structured data? Justify the following statement. "XML document is a semi structured model".	**07**
		OR	
	(c)	Explain XML Data Model with example.	**07**
Q.3	**(a)**	Write a brief note on Xpath.	**03**
	(b)	Compare DTD and XSD.	**04**
	(c)	Explain FLOWR expressions with suitable examples.	**07**
		OR	
Q.3	**(a)**	Explain advanced features of XQuery.	**03**
	(b)	Describe the following Xpath axes: 1. Ancestor 2. Descendent-of-self 3. Preceding 4. Attribute	**04**
	(c)	What is XQuery? Describe doc() and collection() with suitable example.	**07**
Q.4	**(a)**	What is XML typing?	**03**
	(b)	Write a note on ontologies.	**04**
	(c)	Elaborate web crawling.	**07**
		OR	
Q.4	**(a)**	What is bisimulation?	**03**
	(b)	Explain DL-Lite ontologies in detail.	**04**
	(c)	Write a note on Query evaluation techniques.	**07**
Q.5	**(a)**	Write a brief note on OWL.	**03**
	(b)	Explain Global-as-view (GAV) and Local-as-view (LAV) mediation.	04
	(c)	What is Distributed System? Discuss failure management in distributed system in brief.	**07**
		OR	
Q.5	**(a)**	What is web graph mining?	**03**
	(b)	How do we use Peer-to-peer data management systems in WDM ?	**04**
	(c)	Explain following terms with suitable example in distributed system. 1. Reliability 2. Scalability 3. Availability 4. Efficiency	**07**