

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