

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2180713****Date: 29/11/2018****Subject Name: Web Data Management****Time: 02:30 PM TO 05:00 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) Differentiate: HTML and XML.	<b>03</b>
	(b) Explain semi structured data.	<b>04</b>
	(c) Write short note on XSL.	<b>07</b>
<b>Q.2</b>	(a) Define distributed system.	<b>03</b>
	(b) Explain SPARQL.	<b>04</b>
	(c) Explain ontology-based mediators in detail.	<b>07</b>
	<b>OR</b>	
	(c) Explain FLWOR expression with example.	<b>07</b>
<b>Q.3</b>	(a) Explain OWL.	<b>03</b>
	(b) Explain difference between well-formed and valid XML document.	<b>04</b>
	(c) Explain XPath and XQuery with suitable example.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Discuss Peer-to-Peer Data Management System.	<b>03</b>
	(b) Explain Materialized data integration.	<b>04</b>
	(c) Explain web graph mining with example.	<b>07</b>
<b>Q.4</b>	(a) List important standards for XML.	<b>03</b>
	(b) Explain XLink and XPointer.	<b>04</b>
	(c) Discuss failure management in distributed system.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Explain Document Type Definition.	<b>03</b>
	(b) Explain XML Schema Definition.	<b>04</b>
	(c) Discuss global-as-view mediation in detail.	<b>07</b>
<b>Q.5</b>	(a) Briefly explain XML fragmentation.	<b>03</b>
	(b) Explain web crawling with its usage.	<b>04</b>
	(c) List and explain XML evaluation techniques.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Explain boolean queries with example.	<b>03</b>
	(b) List and explain problems of answering queries through ontologies.	<b>04</b>
	(c) Write a DTD that validate given xml.	<b>07</b>
	<note>	
	<to>Students</to>	
	<from>GTU</from>	
	<heading>Examination circular</heading>	
	<body>your exam is scheduled in November 2018</body>	
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