eat No.:	Enrolment No
----------	--------------

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - SUMMER • 2014

Sul	oject	Code: 170708 Date: 31-05-2014	
Tin	ne: 0 ructio		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain Web Data Management with XML. "An XML document is a labeled, unranked, ordered tree." Explain with example.	07 07
Q.2	(a)(b)	Express the following formulas in MathML: 1) $x2 + 4x + 4$ 2) $x^{a+2} + y$ Discuss importance of DTD and XSD with example. OR	07 07
	(b)	How semistructure data model resolves issues in existing web data management?	07
Q.3	(a) (b)	Discuss FLWOR expression with example. What is XPath Axes? Describe following Axes in brief. 1) Axes 2) Sibling 3) descendant 4) parent 5) attribute 6) self 7) preceding 8) descendant-or-self 9) child 10) ancestor OR	07 07
Q.3	(a) (b)	Discuss XPath and XQuery With examples. Explain Navigational XPath and XQuery Syntax with example.	07 07
Q.4	(a) (b)	Differentiate between ranked trees and unranked trees. Explain XML evaluation techniques. OR	07 07
Q.4	(a) (b)	What is Ontology? Discuss RDF with example. Explain Graph semistructured data and graph bisimulation.	07 07
Q.5	(a) (b)	What is Distributed System? Discuss failure management in brief. Explain Web graph mining and hot topics in web search. OR	07 07
Q.5	(a) (b)	Explain Ontology based mediation with example. Discuss Required properties of a distributed system.	07 07
