Seat No.: Enrolment No		No.: Enrolment No	·	
		GUJARAT TECHNOLOGICAL UNIVERSITY		
		BE - SEMESTER-VIII (NEW) - EXAMINATION – SUMMER 2018		
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	-	ect Name: Web data Management(Departmental Elective - III)		
		e: 10:30 AM to 01:00 PM Total Marks: 70		
		ections:		
		1. Attempt all questions.		
		<ol> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>		
	•	rightes to the right indicate run marks.		
Q.1	(a)	Write down the syntax rules for XML declaration.	03	
	<b>(b)</b>	"XML document is a semi structured data model"- Justify with suitable example.	04	
	(c)	Explain XML in brief. Differentiate well-formed and valid XML document.	07	
Q.2	(a)	How DTD is declared in XML document? Explain with an example.	03	
	<b>(b)</b>	Explain XQuery syntax with suitable example.	04	
	(c)	What is FLWOR expression? Explain it with syntax and suitable example.  OR	07	
	(c)	What is Ontology? Discuss RDF with example.	07	
Q.3	(a)	Explain XML attributes syntax with an example.	03	
	<b>(b)</b>	Explain OWL.	04	
	<b>(c)</b>	Discuss the Web Crawling process in detail.	<b>07</b>	
Q.3	(.)	OR	0.2	
		Discuss Peer-to-Peer Data Management Systems.	03	
	(b)	Differentiate between global as view and local as view mediation.	04	
0.4	(c)	What is XML Typing? Why it is essential in web data management.  Discuss Graph Bisimulation technique in brief.	07 03	
Q.4		Explain XML query evaluation techniques in brief.	03	
	(b) (c)	Describe following Axes in brief:	07	
	(c)	(1) child (2) ancestor (3) descendant (4) parent (5) attribute	U/	
		(6) self (7) preceding		
		OR		
Q.4	(a)	Differentiate between ranked trees and unranked trees.	03	
Ų.	(b)	What is distributed system? Write down the advantages of distributed system.	04	
	(c)	Explain web graph mining with suitable example.	07	
Q.5	` ′	Explain filtering with an example.	03	
Q.S	(b)	Explain XLink and XPointer.	04	
	(c)	What is the goal of data integration? Differentiate Virtual versus Materialized	07	
	(C)	data integration	07	
		OR		
Q.5	<b>(a)</b>	Explain XML identifiers.	03	
	<b>(b)</b>	Discuss the rules of thumb for ontology development.	04	
	<b>(c)</b>	What is XPath? Describe XPath data model with an example.	07	