

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII(OLD) - EXAMINATION – SUMMER 2018

Subject Code: 170708**Date: 28-04-2018****Subject Name: Web Data Management (Department Elective-1)****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.

- Q.1** (a) Explain Data Exchange and Data Integration with reference to Web Data Management in XML. **07**
(b) Explain XLink and XPointer in detail, along with an example. **07**
- Q.2** (a) Explain XUpdate Syntax along with one example of usage. **07**
(b) What is XQuery Data Model for Documents? Explain. **07**
- OR**
- (b) Discuss FLWOR expressions in XQuery. **07**
- Q.3** (a) Mention various steps and Evaluation of Path Expressions in XPath. **07**
(b) What is XML Typing? Why is it essential for web data management? **07**
- OR**
- Q.3** (a) Explain different XML query evaluation techniques. **07**
(b) Differentiate between ranked trees and unranked trees. **07**
- Q.4** (a) Explain Graph Semistructured Data, Graph Bisimulation and Data Guides. **07**
(b) What is Ontology? Discuss RDF with example. **07**
- OR**
- Q.4** (a) Explain Ontology based mediation with example. **07**
(b) Explain Fragmentation of XML document in detail. **07**
- Q.5** (a) What is Peer-to-Peer Data Management Systems? Explain and elaborate. **07**
(b) Describe Failure management in distributed systems. **07**
- OR**
- Q.5** (a) Discuss Inverted Files and Clustering in detail in Web Information Retrieval. **07**
(b) Explain and elaborate Web graph mining in web search. **07**
