

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA SEMESTER-V EXAMINATION WINTER - 2017**

**Subject Code:2650009****Date:29/11 /2017****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.

- Q.1** (a) What is semistructured data? Explain with example. **07**  
(b) How XML is different from HTML? Explain XML syntax in detail. **07**
- Q.2** (a) Explain XML based data exchange with suitable figure. **07**  
(b) Discuss all types of XPath axes in brief. **07**
- OR**
- (b) What are the XML standards? Discuss the DOM in detail. **07**
- Q.3** (a) Explain XPath steps and expressions in detail. **07**  
(b) Why typing is important? Explain Dynamic and Static Typing briefly. **07**
- OR**
- Q.3** (a) Explain the predicates and its types of conversions in detail. **07**  
(b) Explain the term Ontologies with its all benefits in detail. **07**
- Q.4** (a) Discuss FLWOR expressions in XQuery. **07**  
(b) Write a short note on “XML Schema”. **07**
- OR**
- Q.4** (a) Explain Graph Semistructured Data, Graph Bisimulation and Data guides. **07**  
(b) Explain different techniques used in Web Information Retrieval. **07**
- Q.5** (a) Discuss Resource Description Framework (RDF) in detail. **07**  
(b) What are the Required properties of a distributed system? Explain. **07**
- OR**
- Q.5** (a) Discuss Global-as-view mediation in detail. **07**  
(b) Explain the programming model along with its scope of MapReduce in detail. **07**

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