

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII(OLD) • EXAMINATION – WINTER 2016

Subject Code: 170708

Date: 18/11/2016

Subject Name: Web Data Management (Department Elective-1)

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) Explain in Detail Web Data Management with XML **07**
(b) How semi structure data model resolves issues in existing web data management? **07**
- Q.2** (a) What is XPath? Describe XPath axes in brief. **07**
(b) Write sort note on FLWOR expression with suitable example. **07**
- OR**
- (b) What is XQuery? Describe doc() and collection() function with suitable example. **07**
- Q.3** (a) Explain Automata on Ranked Trees in detail. **07**
(b) What is XML Typing? Why it is essential in web data management. **07**
- OR**
- Q.3** (a) Explain XML evaluation techniques. **07**
(b) Write sort note on XML Schema. **07**
- Q.4** (a) What is Ontology? Describe RDF, RDFS in Brief. **07**
(b) Why querying data through ontology is different from querying traditional DBMS. **07**
- OR**
- Q.4** (a) Explain the Bucket algorithm of Local-as-view mediation. **07**
(b) Write sort note on Peer-to-peer data management system. **07**
- Q.5** (a) Describe Failure management in distributed system. **07**
(b) Explain Hash-based distributed access structure in brief. **07**
- OR**
- Q.5** (a) Write sort note on Distributed system. **07**
(b) Explain following terms in brief: **07**
1. Web Crawler
2. OWL
