

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – SUMMER 2016

Subject Code:170708

Date:05/05/2016

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 Web Data Management with XML. **07**
(b) Discuss XPath and XQuery With example. **07**
- Q.2** (a) What is Semi Structured data? XML document is a semi structured model- **07**
Justify with suitable example.
(b) What is XML Typing? Why it is essential in web data management. **07**
- OR**
- (b) Explain XLink and XPointer with example. **07**
- Q.3** (a) Compare DTD and XSD. **07**
(b) Explain XSL in detail. **07**
- OR**
- Q.3** (a) What is Ontology? Explain Ontology-based mediators. **07**
(b) Describe Failure management in distributed system. **07**
- Q.4** (a) Explain following terms: **07**
1.Graph Bisimulation
2.OWL
(b) Explain Web crawling process in details. **07**
- OR**
- Q.4** (a) Explain Web graph mining and hot topics in web search. **07**
(b) Discuss FLOWER expression with example. **07**
- Q.5** (a) How data can be exchanged between application using Xml. **07**
(b) **GTUSStudents.xml** is given, write Xpath for following: **07**
a) Select all the name of all students.
b) Select the name of the first student node.
c) Select all the name nodes with a **CPI** higher than 8.
- OR**
- Q.5** (a) Different between ranked trees and unranked trees. **07**
(b) **GTUSStudents.xml** is given, write FLOWER for following: **07**
a) Select all the name of all students where branch is **COMPUTER**.
b) Select all the name nodes with a CPI higher than 7.
c) Select all the city nodes.
