

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – VII SEMESTER – • EXAMINATION – SUMMER 2015

Subject Code: 170708

Date: 06/05/2015

Subject Name: Web Data Management

Time: 02.30pm-05.00pm

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 semi structured data? “XML document is a semi structured data model”- Justify with suitable example. **07**
(b) Explain XML in brief. Differentiate well formed and Valid xml document. **07**

- Q.2** (a) What is XPath? Describe XPath data model with a suitable example. **07**
(b) What is XQuery? Describe doc() and collection() function with suitable example. **07**

OR

- (b) Write short note on FLWOR expression with suitable example. **07**

- Q.3** (a) What is XML Typing? Why it is essential in web data management. **07**
(b) Explain automate on ranked trees in details. **07**

OR

- Q.3** (a) Explain web graph mining with suitable example. **07**
(b) Write short note on XML Schema. **07**

- Q.4** (a) Explain Fragmentation of XML document in detail. **07**
(b) Write short note on XML query evaluation technique: Join **07**

OR

- Q.4** (a) What is Ontology? Describe RDF, RDFS in Brief. **07**
(b) Explain in detail: Ontology-based mediators. **07**

- Q.5** (a) Explain web crawling process in details **07**
(b) Describe Failure management in distributed system. **07**

OR

- Q.5** (a) Write short note on required properties of a distributed system. **07**
(b) Explain following terms: **07**
1. Graph Bisimulation
2. OWL
