

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VIII (NEW) - EXAMINATION – SUMMER 2017****Subject Code: 2180713****Date: 02/05/2017****Subject Name: Web data Management(Departmental Elective - III)****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 XSL in detail **07**  
(b) Write short note on XML Schema **07**
- Q.2** (a) What is Ontology? Explain Ontology-based mediators **07**  
(b) Explain XML typing? Why it is essential in Web data management. **07**
- OR**
- (b) Compare DTD and XSD **07**
- Q.3** (a) Discuss Global-as-view (GAV) and Local-as-view (LAV) mediation **07**  
(b) Differentiate well-formed and Valid xml document **07**
- OR**
- Q.3** (a) Explain fragmentation in XML document in detail **07**  
(b) How semi-structure data model resolves issues in existing web data management **07**
- Q.4** (a) What is RDF Triplet? Discuss RDF with example **07**  
(b) Differentiate between XPath and XQuery With examples **07**
- OR**
- Q.4** (a) What is Graph semi structured data and graph bisimulation **07**  
(b) What is web crawling? Explain in details. **07**
- Q.5** (a) Explain FLWOR Expression **07**  
(b) Discuss web graph mining and hot topics in web search **07**
- OR**
- Q.5** (a) What is Distributed System? Discuss failure management in brief **07**  
(b) Explain Hash-based distributed access structure in brief **07**

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