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## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) - EXAMINATION - SUMMER 2017 Subject Code: 170708 Date: 29/04/2017 **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. 0.1 What is semi structured data? "XML document is a semi structured data **07** (a) *model*"- Justify with suitable example. Explain following terms in detail with example **(b)** 07 1. XLink 2. XPointer Discuss XPath and XQuery With examples. **Q.2** 07 (a) Write sort note on FLWOR expression with suitable example. **07** OR **(b)** Explain Advanced features of XQuery with example. 07 Explain Automata on Ranked Trees in detail. Q.3 (a) 07 Write DTD for the given CD\_catalog.xml file **(b)** 07 OR (a) Explain XML evaluation techniques. **Q.3** 07 Explain XSL in detail. 07 **(b)** 0.4 What is Ontology? Describe RDF, RDFS in Brief. 07 (a) Why querying data through ontology is different from querying traditional 07 **(b)** DBMS. OR Explain Web crawling process in details **Q.4** (a) 07 Write sort note on Peer-to-peer data management system. 07 **(b) Q.5** Describe Failure management in distributed system. 07 (a) **(b)** Explain Ontology based mediation with example. **07** OR Explain Recovery techniques of a Distributed system. (a) 07 **Q.5** For given CD\_catalog.xml, Write FLOWER for following: 07 1. Select all title where country is USA 2. Select all artist if price of cd is higher than \$11.00. 3. Remove all CD records if year is 1985. CD\_catalog.xml: <catalog><cd> <title>Empire Burlesque</title> <artist>Bob Dylan</artist> <country>USA</country> <price>10.90</price> <year>1985 </cd> </catalog>

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