Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.C.A.- SEMESTER – V • EXAMINATION – WINTER 2012

Subject code: 650009 **Date: 28-12-2012**

Subject Name: Web Data Management

Time: 10:30 am – 1:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q. 01 **(a)** **Answer The following Questions**

(i) Give Examples of Semi–Structural Data. **[03]**

(ii) Describe the significance of XPath. **[02]**

(iii) What is API and $_{E}X_{IST}$? **[02]**

(b) **Answer The following Questions**

(i) Explain XML based Data Exchange. **[03]**

(ii) Describe the significance of XQuery. **[02]**

(iii) What is SOAP & WSDL? **[02]**

Q. 02 **(a)** **Answer The following Questions**

(i) Give the example of NavXPath expressions. **[03]**

(ii) What is XUpdate? **[02]**

(iii) What is RDF(S) and OWL languages? **[02]**

(b) Describe the Processing an XML document with SAX and DOM. **[07]**

OR

(b) Describe in detail FLWOR expressions in XQuery. **[07]**

Q. 03 **(a)** Give detail of XPath steps and expressions. **[07]**

(b) Explain different XML identifiers. **[07]**

OR

Q. 03 **(a)** Give detail of XQuery steps and expressions. **[07]**

(b) What are the advantages of Ontologies? **[07]**

Q. 04 **(a)** Explain RDFS in detail with proper example. **[07]**

(b) Why it is difficult to answer the query to ontologies then to answer the simple query of database. **[07]**

OR

Q. 04 **(a)** Explain the Bucket algorithm of Local-as-view mediation. **[07]**

(b) Explain the different techniques of XML evaluation techniques. **[07]**

Q. 05 **(a)** Explain Hash-based Distributed Access structures. **[07]**

(b) Explain Distributed computing. **[07]**

OR

Q. 05 **(a)** Explain in detail Web Graph Mining. **[07]**

(b) Explain Distributed systems. **[07]**

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