

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER-V- EXAMINATION – WINTER 2018**

**Subject Code: 2650009**

**Date: 26/11/2018**

**Subject Name: Web Data Management (WDM)**

**Time: 10.30 am to 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.1. (a)** Answer the following in short one or two sentence. 7
- (i) What is use of SOAP ?
  - (ii) What is use of WSDL?
  - (iii) Define Semistructured Data.
  - (iv) What is tree-based forms?
  - (v) What is XPointer ?
  - (vi) Write Full Form of RDF and OWL.
  - (vii) What is XUpdate ?
- (b)** What is FLWOR Expression in XQuery? Discuss it with a suitable example. 7
- Q.2. (a)** What do you understand by XPath Axes ? Discuss any seven of XPath Axes. 7
- (b)** Discuss WEB Data Management with a suitable example. 7
- OR**
- (b)** Write a short notes on Automata. 7
- Q.3. (a)** Discuss Schema language for XML with a suitable example. 7
- (b)** Write a short note on Autonologies. 7
- OR**
- (a)** Discuss XQuery steps and expressions. 7
- (b)** Discuss between ranked trees and unranked trees. 7
- Q.4. (a)** Discuss XQuery and XPath Operators and Functions. 7
- (b)** Discuss XML query evaluation techniques. 7
- OR**
- (a)** What do you understand by Bucket? Discuss Bucket Algorithm Input and Output Steps. 7
- (b)** How to Fragmenting XML document on disk? Discuss it with a suitable example. 7
- Q.5. (a)** What do you understand by Distributed Access Structures? Discuss Hash-based structures. 7
- (b)** What do you understand by MapReduce ? Discuss steps how to MapReduce operates. 7
- OR**
- (a)** Define Web Searching and discuss Web Graphics Mining. 7
- (b)** What do you understand by Data Integration? Distinguish between Local-As-View mediation and Global-As-View mediation. 7

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