Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER -III • EXAMINATION - WINTER - 2016

Subject Code: 2630001 Date:30/12/2016 Subject Name: Structured and object oriented analysis and design methodology 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. (a) Explain SDLC (System Development Life cycle) with all phases in detail. 07 **Q.1** (b) Explain all conventions used in DATA FLOW diagrams. 07 0.2 07 (a) Discuss guidelines for designing website. (b) Explain objects and classes with UML notations and diagrams. 07 OR **(b)** Explain joint application design. **07 Q.3** Explain links and associations with UML notations and diagrams. 07 (a) **(b)** Discuss Generalization. 07 OR Write Short Note on DATA DICTIONRY. 0.3 (a) 07 **(b)** Explain metadata and derived data with necessary example. 07 0.4 (a) Write Short Note on process specification. 07 (b) Explain state diagram with example of telephone line. 07 OR **Q.4** (a) Explain development of decision table. 07 (b) Discuss signal generalization. 07 0.5 (a) Explain types of UI. **07 (b)** Explain transitions and conditions. 07 OR (a) How can you ensure data quality through input validation. 0.5 **07 (b)** Compare and contrast Aggregation and Composition. 07
