

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.

- Q.1** (a) Explain SDLC (System Development Life cycle) with all phases in detail. **07**
(b) Explain all conventions used in DATA FLOW diagrams. **07**
- Q.2** (a) Discuss guidelines for designing website. **07**
(b) Explain objects and classes with UML notations and diagrams. **07**
- OR**
- (b) Explain joint application design. **07**
- Q.3** (a) Explain links and associations with UML notations and diagrams. **07**
(b) Discuss Generalization. **07**
- OR**
- Q.3** (a) Write Short Note on DATA DICTIONRY. **07**
(b) Explain metadata and derived data with necessary example. **07**
- Q.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**
- Q.5** (a) Explain types of UI. **07**
(b) Explain transitions and conditions. **07**
- OR**
- Q.5** (a) How can you ensure data quality through input validation. **07**
(b) Compare and contrast Aggregation and Composition. **07**
