

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER- III • EXAMINATION – SUMMER 2015

Subject Code: 2630001

Date: 07/05/2015

**Subject Name: Structured and Object Oriented Analysis
and Design Methodology**

Time: 02:30 pm – 5:00 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 various stages of System Development Life Cycle. **07**
(answer in approximately 200 words)
- (b)** (i) Write any four the Role of System Analyst **07**
(ii) Discuss in brief TPS, KWS, ES, DSS
- Q.2 (a)** (i) Explain in Brief : (1) Data Structures (2) Data Elements (3) Data Stores **03**
(ii) What is CASE Tool? What are the two different Case Tools. **04**
- (b)** Draw Context Level, 0-Level Data Flow Diagram (DFD) & Use Case Diagram **07**
for a Restaurant Management System. Make assumptions about the system by
your own.
- OR**
- (b)** Write a Short note on the following: **04**
1. Structured English with example. **04**
2. Open Ended and Closed Ended Questionnaires **03**
- Q.3 (a)** Discuss the Guidelines for designing Dialogs. **07**
- (b)** Which are output Technologies? Also discuss two methods for output **07**
technology.
- OR**
- Q.3 (a)** Write a short note on Graphical User Interface, also explain Ajax in brief **07**
- (b)** Which are the Query Types? Also explain Query Methods. **07**
- Q.4 (a)** Explain Object Oriented Themes **07**
- (b)** Discuss Generalization, Association, Composition in **07**
UML with example.
- OR**
- Q.4 (a)** (i) What are the stages of OO Methodology. **05**
(ii) Explain Association End Names. **02**
- (b)** Draw a State Diagram for telephone line system. **07**
- Q.5 (a)** Write short note on structural diagrams in UML. **07**
- (b)** What is Class? How will you Draw class diagram? Give suitable example. **07**
- OR**
- Q.5 (a)** What is Use Case in UML? List down actors and use cases for the following **07**
systems.
i. Library Management System.
ii. Online Train Reservation System.
- (b)** What is Event? Explain Signal Event, Change Event, Time Event **07**
