Subject Code: 2630001

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

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) (b)	Explain various stages of System Development Life Cycle. (answer in approximately 200 words) (i) Write any four the Role of System Analyst (ii)Discuss in brief TPS, KWS, ES, DSS	07 07
Q.2	(a) (b)	(i) Explain in Brief: (1) Data Structures (2) Data Elements (3)Data Stores (ii) What is CASE Tool? What are the two different Case Tools.  Draw Context Level, 0-Level Data Flow Diagram (DFD) & Use Case Diagram for a Restaurant Management System. Make assumptions about the system by your own.	03 04 07
	(b)	OR Write a Short note on the following:  1. Structured English with example.  2. Open Ended and Closed Ended Questionnaires	04 03
Q.3	(a) (b)	Discuss the Guidelines for designing Dialogs. Which are out put Technologies? Also discuss two methods for out put technology.	07 07
Q.3	(a) (b)	OR Write a short not on Graphical User Interface, also explain Ajax in brief Which are the Query Types? Also explain Query Methods.	07 07
Q.4	(a) (b)	Explain Object Oriented Themes Discuss Generalization, Association, Composition in UML with example.	07 07
Q.4	(a) (b)	OR  (i) What are the stages of OO Methodology.  (ii) Explain Association End Names.  Draw a State Diagram for telephone line system.	05 02 07
Q.5	(a) (b)	Write short note on structural diagrams in UML. What is Class? How will you Draw class diagram? Give suitable example.  OR	07 07
Q.5	(a)	What is Use Case in UML? List down actors and use cases for the following systems.  i. Library Management System.  ii. Online Train Reservation System.	07
	<b>(b)</b>	What is Event ? Explain Signal Event , Change Event , Time Event	07

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