Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-III • EXAMINATION – SUMMER • 2015

Subject Code: 630001 Date: 07-05-		Code: 630001 Date: 07-05-2015	
	•	Name: Structured and Object Oriented Analysis	
	J	and Design Methodology	
Time: 02:30 pm - 05:00 pm Total Marks: 7			
1. Attempt all questions.		•	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
	4.	Draw figures whenever necessary.	
Q.1	(a) (b)	What is SDLC? Explain various stages of System Development Life Cycle. What is Activity Diagram? Draw Activity Diagram for DVD Purchase System.	07 07
0.3	, ,		
Q.2	(a)	(1) DSS Stands for	07
		(2) virtual reality systems is an example of(3) Algebraic Notation Plus sign, means	
		(4) is a class of persons, places or things.	
		(5) is a unique attribute for the record.	
		(6) means data about the data in the file or database.	
		(7) OLAP stands for	
	(b)	What is Effective Coding? Explain the following Coding. (1) Function code (2) Unicode	07
		OR	
	(b)	What do you mean by Form Designing? Discuss the Guidelines for Form Designing.	07
Q.3	(a)	What is Object Orientation? Explain identity, classification, inheritance and	07
		polymorphism.	
	(b)	What do you mean by designing query? Discuss various types of queries.	07
0.2	(-)	OR	07
Q.3	(a) (b)	Write a note on (1) Data Dictionary and (2) Structured English What is Generalization? Discuss the different purposes of Generalization with example.	07 07
Q.4	(a)	Write a note on (1) State Diagram and (2) Nested State Diagrams	07
	(b)		07
Q.4	(a)	Write a note on (1) Types of Interface and (2) Input Validation	07
	(b)	What is Designing? Discuss points to be considered while designing Dialog.	07
Q.5	(a)	What is Class Diagram? Draw Class Diagram for ATM system	07
	(b)	Differentiate Logical DFD v/s Physical DFD with suitable Example OR	07
Q.5	(a) (b)	What is Class Attributes? Draw Class Diagram for Magazine Subscription What is Use Case Diagram? Explain it with suitable Example	07 07
