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

Subject Code: 630001   **Date: 07-05-2015**
Subject Name: Structured and Object Oriented Analysis
and Design Methodology
Time: 02:30 pm - 05:00 pm   **Total Marks: 70**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Draw figures whenever necessary.

Q.1	**(a)**	What is SDLC? Explain various stages of System Development Life Cycle.	**07**
	(b)	What is Activity Diagram? Draw Activity Diagram for DVD Purchase System.	**07**
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.	**07**
		(1) Function code (2) Unicode	

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 polymorphism.	**07**
	(b)	What do you mean by designing query? Discuss various types of queries.	**07**

OR

Q.3	**(a)**	Write a note on (1) Data Dictionary and (2) Structured English	**07**
	(b)	What is Generalization? Discuss the different purposes of Generalization with example.	**07**
Q.4	**(a)**	Write a note on (1) State Diagram and (2) Nested State Diagrams	**07**
	(b)	What is Decision Tree? Discuss Decision Table with suitable example	**07**

OR

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	**07**

OR

Q.5	**(a)**	What is Class Attributes? Draw Class Diagram for Magazine Subscription	**07**
	(b)	What is Use Case Diagram? Explain it with suitable Example	**07**

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