GUJARAT TECHNOLOGICAL UNIVERSITY MCA- SEMESTER -III EXAMINATION -SUMMER-2019

	_	Name: Structured & Object Oriented Analysis & Design Methodology	70	
	ne:02 tructio	2.30 pm to 5.00 pm Total Marks: 7	U	
1115		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Write a short note on- (1) JAD (2) data dictionary (3) abstract class (4) do activity(1)	07	
	(b)	 State Whether the following statements are True or False, justify your answer (1) Knowledge work system supports data workers. (2) Lower CASE Tools allows the analyst to create and modify the system design. (3) Decision tree is one of the methods of process specification. (4) In 0 level DFD we can represent data stores as well. (5) Generalization represents "is-a" relationship. (6) The dynamic aspect of the UML model is modeled using structural things. (7) A sequence diagram is an interaction diagram that emphasizes on time ordering of messages. 	07	
Q.2	(a) (b)	Draw the Use case diagram for Online Mobile recharge system. Prepare the data flow diagram (DFD) to represents data flow for school management system. OR	07 07	
	(b)	Prepare the decision table for university grading system.	07	
Q.3	(a) (b)	Discuss SDLC with suitable example. Discuss various types of user interface. OR	07 07	
Q.3	(a) (b)	Write a short note on (1) Role of System Analysts. (2) Five steps of conducting an interview. List and explain different data entry methods.	07	
Q.4	(a) (b)	Discuss the building blocks of UML. Draw Class diagram of online shopping system with proper explanation of classes and relationships. OR	07 07	
Q.4	(a) (b)	What are the common mechanisms in UML? Explain extensibility mechanism. What do you mean by state diagram? Draw the state chart for Telephone line.	07 07	
Q.5	(a) (b)	Differentiate sequence and communication diagram with example. Explain forking joining with example for activity diagram. OR	07 07	
Q.5	(a)	Prepare the activity diagram for use cases issue/return and fine calculation in library management system.	07	
	(b)	Explain structured control in sequence diagram.	07	