

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER - III • EXAMINATION - SUMMER 2018

Subject Code: 2630001 Date: 18-May-2018

Subject Name: Structured & Object Oriented Analysis & Design Methodology
Time: 02.30 pm to 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)	Fill in the blanks with appropriate words	07
		1 shows set of use cases and actors and their relationships	
		2. KWS Stands for	
		3. First step in analyzing requirement is to construct	
		model.	
		4. Purpose of DFD can be	
		5 means data about the data in the file or database.	
		6. OLAP stands for	
	(b)	7. Abstract class means Define SDLC. Explain stages of analysis and design of system in SDLC.	07
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Q.2	(a)	Explain the types of systems.	07
	(b)	Explain Structured English and Decision Tree with suitable example.	07
	<i>a</i>)	OR	0=
	(b)	Discuss Generalization, Association, Composition in UML with example	07
Q.3	(a)	Explain the output technologies in brief	07
	(b)	List different requirement gathering techniques. Explain any one in detail with	07
		advantages and disadvantages	
		OR	
Q.3	(a)	Explain types of Interview question structure	07
	(b)	Draw DFD on School Management System	07
Q.4	(a)	Draw state diagram of telephone with description of each states	07
	(b)	Define event. Explain types of event with example. Also differentiate event	07
		with state in brief.	
		OR	
Q.4	(a)	Define State. Describe State Transition and Conditions with example. Draw one	07
		shot State diagram.	
	(b)	What is Interaction diagram? Explain Structured Controls in Sequence diagram	07
Q.5	(a)	What is Class diagram? Explain it with suitable example.	07
	(b)	What is Object oriented Modeling? Explain it with characteristics	07
		OR	
Q.5	(a)	What is Use Case diagram? Compare include and extend relationship of Use	07
		Case diagram with suitable example.	
	(b)	Draw an activity diagram for social networking site where first time users will	07
		log on the registration page and register themselves as a member of the site.	
