13MCA51

Fifth Semester MCA Degree Examination, June/July 2018 Object Oriented Modeling and Design Patterns

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

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1	a.	Explain object oriented themes.	(06	Marks)
	b.	Discuss purposes served by model.		Marks)
	C.	Differentiate between association, aggregation and composition.		Marks)
2	a.	Explain state diagram behavior.	(10	Marks)
	b.	Explain types of concurrency supported by objects with appropriate example.	(10	Marks)
3	a.	Discuss the components of activity model with an example.	(10	Marks)
	b.	Explain use case relationship with an example.	(10	Marks
4	a.	Briefly discuss software development stages.	.10	7/000
1	b.		N >-	Marks)
2)	/U.	What are the questions to be asked while preparing a problem statement? Discustake ATM case study.	Sand Bridge	
4		take ATM case study.	(10	Marks)
5	a.	Explain the steps in eliminating unnecessary attributes? Write the class diagram for	A	TM by
		adding attributes.		Marks)
	b.	Explain steps in constructing application class model.		Marks)
		and the state of t	(10	Wiai KS)
6	a.	What is a library? How library should be organized so that it can be easily reused?	(10	Marks)
	b.	Explain the steps in designing algorithms.		Marks)
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7	a.	What is a pattern? Briefly explain pattern categories.	(10	Marks)
	b.	Explain structure and dynamics of client Dispatcher server pattern.		Marks)
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8		Write short notes:		
	a.	Operation and methods.		
	b.	Association end names.		
	C.	Constraints.		
	d.	Batch transformation.	(20	Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.