13MCA51

(10 Marks)

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Fifth Semester MCA Degree Examination, Dec.2017/Jan.2018 Object Oriented Modeling & Design Patterns

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

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1	a.	What is object orientation? Explain briefly the stages involved in object methodology.	(10 Marks)
	b.	What do you mean by abstraction? Discuss different types of modeling technique	es used for
	υ.	object oriented modeling and design.	(10 Marks)
		object of lefted flodering and design.	
2	a.	Discuss the terms aggregation and composition with example.	(08 Marks)
2		Explain with a diagram, how an association class participates	(06 Marks)
	b.	What are links and association Write and explain UML notations for links and as	
	c.		(06 Marks)
		with an example.	(
		Define state diagram and state model Draw the state diagram for telephone	line with
3	a.		(10 Marks)
	a	activities.	(10 Marks)
	b.	What do you mean by states and events? Discuss different kinds of events.	(10 1/141143)
		Service and models	(08 Marks)
4	a.	What is a use case? Explain the guidelines for use case models.	
	b.	What do you mean by swim lane? Explain briefly an activity diagram with swir	(06 Marks)
		servicing an airplane.	,
	c.	Discuss sequence models. Draw the sequence diagram for a session with an or	(OC Marks)
		broker.	(06 Marks)
			(10 M l)
5	a.	List and explain different stages of software development process.	(10 Marks)
	b.	Discuss about activity models with guidelines and draw the activity diagram for	stock trade
		processing.	(10 Marks)
6	a.	Discuss the steps to construct a domain class model, with an example of ATM.	(10 Marks)
	b.	Discuss the steps to construct an application interaction model with example.	(10 Marks)
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7	a.	Discuss common architectural styles of system design.	(10 Marks)

Explain client-dispatcher-server design pattern.

(ii) Abstract class

Discuss with example:

(i) Enumerations

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What is a pattern? How it is categorized? Describe any one category with an example.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

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