(04 Marks)

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## Seventh Semester B.E. Degree Examination, Dec.2014/Jan.2015 Object Oriented Modeling & Design

Fime: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

		PART – A	
1	a.	Describe the important characteristics of object orientation.	(08 Marks)
	b.	THE PART OF THE PA	Qualified
		association,	(12 Marks)
			(12 111113)
2	a.	With suitable UML diagram explain aggregation and composition.	(08 Marks)
	b.	Draw class diagram for the following:	(00 Marks)
		i) Programmer uses computer language on projects.	
		ii) Worker is a butcher or baker or candlestick maker.	(04 Marks)
	c.	Draw and explain the general UML syntax for state diagram.	(04 Marks)
	٠.	Dian and explain the general Olive Syntax for state diagram.	(UO MINIKS)
3	a.	What is submachine? Explain with the state diagram of a vending machine.	(00 Mante)
3	b. Draw a sequence diagram for a stock purchase using an online stock broker system		(08 Marks)
	υ.	braw a sequence diagram for a stock purchase using an online stock bloker system	11. (04 Marks)
	c.	With suitable examples, expalin different use case relationships.	(04 Marks)
		with suitable examples, expanii different use ease relationships.	(UO IVIAIKS)
4	a.	Explain the following software development life-cycle models:	
7	u.	i) Water fall development	
		ii) Iterative development.	(07 Mantes)
	b.		(07 Marks)
		List and explain any four criteria to be considered in keeping the right classes.	(08 Marks)
	c.	Draw domain state model for account with respect to ATM example.	(05 Marks)
		DADT D	
5		PART – B  Draw the use-case diagram for ATM and explain each use-case.	(0/ M1-)
3	a. b.		(06 Marks)
		Bring out initial and final event for each use-case in ATM example.	(04 Marks)
	c.	Explain the various software control strategies that can be applied in the system d	
			(10 Marks)
6	а.	List and explain the steps involved in the design of algorithms.	(12 Marks)
Ū	b	Compare forward engineering and reverse engineering.	(08 Marks)
	υ.	Compare forward engineering and reverse engineering.	(OU MAINS)
7	a.	What is a pattern? Explain with model-view-controller example.	(08 Marks)
•	b.	Explain the structure and dynamics of forwarder-receiver pattern.	(12 Marks)
	U.	Dapidin the structure and dynamics of forwarder-receiver pattern.	(12 Minins)
8	a.	Explain the behaviour of the view handler for the scenario "view creation".	(08 Marks)
v	b.	Explain the structure of the command processor pattern.	(08 Marks)
	υ.	Explain the structure of the continuing processor patient.	(vo mains)

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c. Briefly explain the counted pointer problem.