## CBCS SCHEME

USN					

## Fifth Semester B.E. Degree Examination, June/July 2019 Object Oriented Modeling and Design

	Tin	ne:	3 hrs.	Max. Marks: 80									
	Note: Answer any FIVE full questions, choosing ONE full question from each module.												
			Module-1	7									
	1	a.	What is OO development? What are OO themes explain?	(06 Marks)									
		b.	Define model. Mention its purposes. Explain types of models.	(05 Marks)									
		C.	Explain multiplicity with class model.	(05 Marks)									
			OR										
	2	a.	Explain generalization and inheritance with example.	(06 Marks)									
		b.	What is aggregation explain with example?	(05 Marks)									
		C.	Write a class model of windowing system.	(05 Marks)									
			Module-2										
	3	a.	Define use case and actor. Explain use case diagram for order process ar	nd scenarios.									
				(06 Marks)									
		b.	Define the System Sequence Diagram (SSD). Explain the simple system										
		c.	White the life of activity diagram of the telephone and a geometric	(05 Marks)									
		C.	Write simplified activity diagram of the telephone order scenario.	(05 Marks)									
			OR										
	4	a.	Define state chart. Explain simple state chart for a printer.	(06 Marks)									
		b.	Write and explain state chart for order item.	(05 Marks)									
		C.	Explain nested states and concurrency.	(05 Marks)									
Module-3													
	5	a.	Define process overview and explain software development process.	(08 Marks)									
		b.	Explain system conception and elaborate with ATM example.	(08 Marks)									
			OR										
	6	a.	Describe the steps for construction domain class model of an ATM syste	em. (08 Marks)									
	U	b.	Describe data dictionaries for an ATM.	(08 Marks)									
		U.	Describe data dictionaries for all 11111.	(0011,100)									
			Module-4										
	7	a.	Describe: i) Design class notation ii) Fundamental design principles.	(08 Marks)									
		b.	Explain developing the first-cut RMO design class diagram for order ite	m. (08 Marks)									
			OR										
	0		The late of the first and services diagram for the lock up item	availability usa sasa									

- 8 a. Explain designing the first cut sequence diagram for the look up item availability use case and mention its guidelines. (08 Marks)
  - b. Describe the symbols of the communication diagram. Write a communication diagram for look up item availabilities. (08 Marks)

## Module-5

- 9 a. What is design pattern? Describe design patterns. (08 Marks)
  - b. How design patterns solve design problems? Explain. (08 Marks)

## OR

Write a note on: i) Prototype and singleton ii) Adaptor and proxy. (16 Marks)

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