15CS551

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 **Object Oriented Modeling and Design**

Time: 3 hrs. Max. Marks: 80

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Note: Answer FIVE full questions, choosing ONE full question from each module.			
Module-1			
1	a.	What is object orientation? Explain OO Themes.	(08 Marks)
	b.	Define the following terms with examples:	
		(i) Object (ii) Class (iii) Multiplicity (iv) Link and Association	(08 Marks)
		OR	
2	a.	Explain the three models used in object oriented modeling and design.	(08 Marks)
	b.	Briefly explain Aggregation and Composition.	(08 Marks)
3	a.	Module-2 What are use case diagrams? Explain Use Case diagrams with an example.	(08 Marks)
3	b.	What are sequence diagrams? Explain sequence diagrams with an example.	(08 Marks)
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		OR*	1 2
4	a.	Define state diagram. Explain state diagram for order item and mention state transitions for order.	
	h	Briefly explain the steps involved in developing state chart diagram.	(08 Marks)
	b.		(08 Marks)
_		Module-3	
5	a.	Explain software development stages.	(08 Marks)
	b.	Explain waterfall development and iterative development life cycles.	(08 Marks)
OR			
6	a.	Explain an overview of Domain Analysis.	(08 Marks)
	b.	Explain the steps involved in constructing a domain class model.	(08 Marks)
Module-4			
7	a.	Explain design classes and design class diagrams.	(08 Marks)
	b.	Briefly explain object responsibility and class responsibility collaboration cards.	(08 Marks)
0		OR	(00 Maulus)
8	a.	Explain designing with communication diagrams. List and explain the primary responsibility of view layer classes, domain layer	(08 Marks)
	U.	data access layer classes.	(08 Marks)
~		Module-5	(00) 7
9	a.	What is design pattern? Explain four essential elements of design pattern.	(08 Marks)
	b.	Explain selecting a design pattern and how to use a design pattern.	(08 Marks)
OR			

OR Briefly explain the general template for describing design pattern.

(08 Marks)

Write short note on:

10

Creational pattern. Structural pattern. (i)

(ii)

(08 Marks)

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.