USN	150	CS551

Fifth Semester B.E. Degree Examination, July/August 2021 Object Oriented Modeling and Design

(08 Marks)

Ti	me:	3 hrs. Max. Mar	ks: 80
		Note: Answer any FIVE full questions.	
1	a.	What is object oriented development? Explain.	8 Marks)
	b.		4 Marks)
	c.	T-1.' O-1'C 1 A ' ' A V' 1	4 Marks)
2	a.	Differentiate between Aggregation and Composition. Explain with an example.	10 Ml)
_	b.		8 Marks)
	٥.	(0	8 Marks)
3	a.	Briefly discuss the detailed object oriented requirements definitions with diagram. (0	8 Marks)
	Ъ.	What is Activity Diagram? Draw a activity diagram of the web order scena	rio with
			8 Marks)
4	a.	Explain system sequence diagram notation with neat diagram. (0	8 Marks)
	b.	What is state chart diagram? Explain nested states and concurrency with an example	•
			8 Marks)
5	a.	Briefly discuss the different stages of software development process.	8 Marks)
	b.		8 Marks)
			o manis)
6		What are the steps involved to construct a Domain Class Model? Explain with diagra	ıms.
			6 Marks)
_			125 SSS
7	a.	Explain object oriented design. The bridge between requirements and implementation	
	L	diagram. (0)	8 Marks)
	b.	Discuss the symbols, notation and design principles of design class diagrams. (0)	8 Marks)
8	а	With diagram, explain communication diagrams.	034
U	h.	What are the responsibilities of view layer, domain layer and data access layer? Expl	8 Marks)
		(U)	8 Marks)
9	a. ,	What is design pattern? Explain the four essential elements of pattern.	8 Marks)
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10	a.	With diagram, explain the object adapter class.	8 Marks)
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Briefly discuss about prototype pattern

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.