GBGS SCHEWE

USN												17CS551
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Fifth Semester B.E. Degree Examination, Jan./Feb. 2023 **Object Oriented Modeling and Design**

Tir	ne: 3	3 hrs. Max. Marks: 10	Max. Marks: 100											
	Note: Answer any FIVE full questions, choosing ONE full question from each module.													
		Module-1												
1	a.	What is object orientation? Explain the stages involved in object oriented methodology.	1											
	L	Explain abject ariented there a												
	b.	Explain object oriented themes. (06 Mar)	-											
	c.	Explain three kinds of models used in OOMD to describe a system. (06 Mar)	KS)											
		OR												
2	a.	Define the following terms with example and UML notations:												
		(i) Links and associations												
		(ii) Multiplicity	*											
		(iii) Qualified association												
		(iv) Association classes												
		(v) Visibility (10 Mar)	ks)											
	b.	What is Aggregation and Composition? Explain with UML notation with an example.												
		(10 Mar)	ks)											
		Module-2												
3	a.	What is use case diagram? Explain its notation with an example. (10 Mar												
	b.	Mention the notations and alternate notations to show the repeating operation in SSD's w												
		example. (10 Mar	KS)											
		OR												
4	a.	What is state chart diagram? Explain the steps involved in developing state chart diagram.												
		(10 Mar												
	b.	Explain all the necessary steps for developing order item state chart. (10 Mar.	ks)											

Module-3

- Explain the software development process. (10 Marks)
 - Explain waterfall development and iterative development life cycles. (10 Marks)

OR

- Explain the criterias used to select the right classes in domain class model. (10 Marks) (10 Marks)
 - Explain an overview of domain analysis.

Module-4

Explain the overview of object oriented programs with neat diagram. (10 Marks)

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OR

8 a. Explain the design process with communication diagrams. (10 Marks)

Discuss the implementation issues of view layer classes, domain layer classes and data access layer classes. (10 Marks)

Module-5

9 a. What is design pattern? Explain four important elements of design pattern. (10 Marks)

b. Explain how to select and how to use a design pattern.

(10 Marks)

OR

10 a. Mention any five design problems and explain how design patterns solve them. (10 Marks)

. Write short notes on: (i) Creational pattern (ii) Structural pattern

(10 Marks)

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