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ADAG GAURINE

		SINEING COUNTY	
US	SN		17CS551
Fifth Semester B.E. Degree Examination, Jan./Feb. 2021			
Object Oriented Modeling and Design			
Time: 3 hrs.			Marks: 100
		Note: Answer any FIVE full questions, choosing ONE full question from each mo	odule.
		Module-1	
1	a.	. What is an object orientation? Explain the four aspects of Object Orientation	(06 Marks)
	b. c.	· Explain Object Offerfied Anemes	
	٠.	. What is a model? Explain the three models used in object orientation modeling an	nd design.
			(08 Marks)
2	_	OR OR	
2	a.	Define the following terms with an examples: (i) Links and Association	
		(i) Links and Association (ii) Multiplicity	
		(iii) Qualified Association	
		(iv) Ordering	
	b.		(08 Marks)
	c.	List and explain various restricting techniques used with respect to workarounds.	(06 Marks)
		g with respect to workarounds,	(06 Marks)
3	•	With a most 1	
3	a.	With a neat diagram illustrate the detailed object oriented requirements definitions	S.
	b.	What is use-case and actor? With a neat diagram, describe order-entry subsy	
		midiates age cases.	MARKET TOTAL CONTROL OF THE PARTY OF THE PAR
	c.	List and define separate levels of use case description. Illustrate the intermediate of telephone order scenario for crosts were all	(06 Marks)
		of telephone order scenario for create new order use case.	(08 Marks)
			(**************************************
4	a.	What is System Sequence Diagram (SSD)? Explain SSD of the simplified teleph scenario for the create new order use case.	
	A	Total of office the worlder the Case	NAME OF TAXABLE PARTY.
	b.	With a neat diagram, explain the activity diagram of web order scenario for the	(06 Marks)
		order use case.	(08 Marks)
	c.	This a field Sactor exhibit harrial state chart for Ondontes	(06 Marks) (06 Marks)
			(======================================
5	a.	Explain the software development stages.	
		Differentiate between waterfall development and iterative development life cycles. Explain briefly the questions to be answered by	(09 Marks)
	c.	Explain briefly the questions to be answered by a good system concept with respective case study	04 Marks)
			(07 Marks)

a. Explain the steps used to construct a domain class model.
b. Explain the steps involved in developing domain state model.

(10 Marks) (10 Marks) Module-4

a. With a neat diagram, explain object oriented event-driven program flow. (08 Marks)
b. What are the steps used in object oriented design process? (04 Marks)

c. What is a stereo type? With a neat diagram, explain standard stereotypes found in design models.

(08 Marks)

OR

8 a. Explain briefly the concepts of interaction diagrams:

(i) Object responsibility

c.

(ii) Use case controller (06 Marks)

b. Discuss the symbols used in communication diagram. (06 Marks)

c. With a neat diagram, explain partial design of a three layer package for RMO. (08 Marks)

Module-5

9 a. What is design pattern? Explain in brief the four essential elements of pattern. (07 Marks)

b. Briefly explain how to select a design pattern. (06 Marks)

Explain how to use a design pattern. (07 Marks)

OR

10 a. Explain Intent, Structure, Applicability, Collaborations and Consequences of prototype nattern.

(10 Marks)

b. Explain Intent, Structure, Applicability, Structure, Participants and Implementation of Adapter Pattern. (10 Marks)