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Seventh Semester B.E. Degree Examination, June/July 2023

Object Oriented Modeling and Design

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

- a. What is object oriented development? Explain briefly the stages involved in object oriented methodology. (10 Marks)
 - b. Discuss the purpose of three models. (06 Marks)
 - c. Prepare a class diagram from the object diagram shown in Fig.Q1(c). Explain multiplicity decision. (04 Marks)

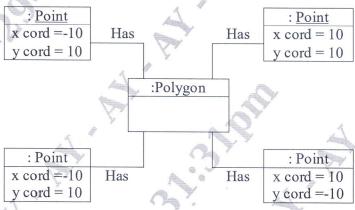


Fig.Q1(c)

- 2 a. Explain the following using suitable examples:
 - (i) Enumerations
 - (ii) Scope
 - (iii) Multiplicity for attributes.

(08 Marks)

- b. What is an event? Discuss the various kinds of events using UML notations.
- (08 Marks)
- c. Design and describe a guarded transition diagram for traffic lights at an intersection.

(04 Marks)

- 3 a. Prepare a use case diagram for computer email system with minimum two actors. Explain the relevance of each actor with corresponding use case. (08 Marks)
 - b. Explain with suitable examples the following:
 - (i) Include relationship
 - (ii) Extend relationship

(08 Marks)

- c. What are transient object? Exhibit transient object with a sequence diagram.
- (04 Marks)

4 a. With neat diagram, explain the process overview.

(06 Marks)

- b. Explain the steps performed in constructing a domain state model with an example.
 - (08 Marks)

c. Explain the class model for an ATM system.

PART – B

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5 8	a. For an ATM examplei) Analyze the difference type use cases by designing a use case diagram.	
	i) Analyze the difference type use cases by designing a use case diagram.ii) Explain process transaction scenario.	(12 Marks)
1	b. What is system design? Explain steps involved in it.	(08 Marks)
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6	a. List and explain the steps involved in design of algorithms.	(08 Marks)
	b. Write a brief note on Realizing algorithm.	(08 Marks)
	c. Write a note on wrapping.	(04 Marks)
7	a. What is pattern? Explain the properties of pattern for Software Architecture.	(10 Marks)
•	b. Describes the three categories of Patterns.	(10 Marks)
8	Write short notes on	(05 Marks)
	a. Structure part of command processor.b. Dynamic scenario of view handler	(05 Marks)
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	d. Idioms and style.	(05 Marks)
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