10CS71

(06 Marks)

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

Object Oriented Modeling and Design

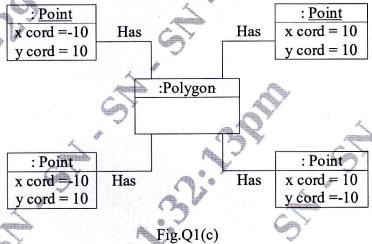
Time: 3 hrs.

Max. Marks:100

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

PART - A

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



- 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.

(06 Marks)

PART – B

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		PART – B	
5	a.	For an ATM example	- 1 A
		i) Analyze the difference type use cases by designing a use case diagram.	(12 Marks)
		ii) Explain process transaction scenario.	(12 Marks)
	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.		(08 Marks)
	c.	Write a note on wrapping.	(04 Marks)
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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	
	a.	Structure part of command processor.	(05 Marks)
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	c.	Benefits of view handler	(05 Marks)
	d.		(05 Marks)
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