(6 pages)	Reg. No. :	2.	A subclass inherits all of the properties and methods defined in its
Code No. : 7059	Sub. Code: ZCAM 15		(a) main class (b) inner class
M.C.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2022			(c) child class (d) super class
		3.	UML stands for
First Semester			(a) Unified Modeling Language
Computer Application – Core			(b) Union Method Language
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML			(c) Unified Method Language
			(d) Union Member Language
(For those who joined in July 2021 onwards)		4.	Which of the following diagram is time oriented?
Time : Three hours Maximum : 75 marks		* 1	(a) Collaboration
PART A — $(10 \times 1 = 10 \text{ marks})$			(b) Sequence
Answer ALL the questions.			(c) Activity
Choose the correct answer:			(d) Implementation
Software development is and always undergoing major change.		5.	is a creative activity that involves understanding the problem its associated constraints.
(a) static	(b) protected		(a) Modeling (b) Analysis
(c) dynamic	(d) public		(c) Design (d) Implementation

Sup	erclass-subclass	relations	ships also known as		
(a)	specialization l	nierarchy	y		
(b)	disjoint hierarchy				
(c)	jointness hierarchy				
(d)	generalization hierarchy				
subs			ne for refining the software systems.		
(a)	Axioms	(b)	Corollaries		
(c)	Design Pattern	s (d)	Class Design		
inte	is a more dependence bet		of the degree o		
(a)	Cohesion	(b)	Coupling		
(c)	Modularity	(d)	Process		
	testing assu- ortant and mus em's proper fund	t be tes	at the specific logic is ted to guarantee the		
(a)	Black box	(b)	White Box		
(c)	Top-down	(d)	Bottom-up		
		lago 3	Code No : 7059		

- 10. In which types of testing Cyclomatic complexity is measured?
 - (a) Black box testing
 - (b) White Box testing
 - (c) Yellow box testing
 - (d) Green box testing

PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write short note on Encapsulation and Information hiding.

Or

- (b) Why do you use object orientation? List out the benefits of object orientation.
- 12. (a) Discuss about the Booch Methodology.

Or

- (b) Explain Static and Dynamic Models.
- 13. (a) Mention the steps for finding use cases.

Or

(b) Explain about a part-of-relationships aggregation and patterns.

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[P.T.O.]

14. (a) Writes a short note on Design Patterns.

Or

- (b) Explain Designing Methods and Protocols.
- (a) Write short notes on Quality Assurance tests.

Or

(b) Explain about Usability Testing.

PART C -- (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain about Class Hierarchy.

Or

- (b) Discuss about the Object Oriented software development lifecycle.
- 17. (a) Write the difference between design patterns and frameworks.

Or

(b) Explain UML Extensibility.

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18. (a) List out the guidelines for identifying super-sub relationship.

Or

- (b) Explain the Methods for ViaNet bank objects.
- 19. (a) Explain in detail about coupling and cohesion.

Or

- (b) Explain about micro level process.
- (a) Explain briefly about the guidelines for developing test plans.

Or

(b) Describe about impact of Object Orientation on testing.

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