



QP CODE: 23501025



Reg No : .....

Name : .....

**I.M.C.A DEGREE EXAMINATION, NOVEMBER 2023**

**Fifth Semester**

Integrated MCA

**CORE - IMCA5C04 - OBJECT ORIENTED MODELING AND DESIGN**

2020 Admission Onwards

849F3BD7

Time: 3 Hours

Maximum: 75 Marks

**Part A**

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Write short note on Agile approach in software development?
2. How a good model lead to the solution of a problem?
3. Explain the concept of a well-formed model?
4. Explain the concept of generalization with an example.
5. Constraints are useful to specify semantics more precisely? Justify.
6. What is an owned element in a package? Explain.
7. Which are the interaction diagrams used in UML and what are its basic uses?
8. Outline your understanding about event trigger?
9. In detail explain trace relationship?
10. Describe about Use Case view?
11. With a Sequence diagram explain balance inquiry process in an ATM?
12. With a Sequence diagram explain cash deposit in an ATM?

(10×3=30 marks)





## Part B

*Answer all questions*

*Each question carries 9 marks*

13. a) How different views helps to understand the architecture of a system?

OR

b) Briefly describe system development life cycle.

14. a) Compare structural and behavioural diagrams with examples.

OR

b) Explain with example the methods of demonstrating Visibility, Attributes and Operations in a class diagram.

15. a) With an example explain how the flow from activity to activity illustrate by an Activity Diagram.

OR

b) Draw a State Machine diagram and explain.

16. a) Prepare a component diagram for an air ticket sales.

OR

b) With a neat diagram Model System Architecture.

17. a) Prepare Deployment diagram for ATM.

OR

b) In detail explain railway reservation using Sequence diagram.

(5×9=45 marks)

