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Examination: Odd Semester Examination 2025

Paper Name: Object Oriented Programming **Paper Code: MCA-101**

Time: 2:30 Hours (10:00AM To 12:30 PM) **Maximum Marks: 60**

Note: This question paper has two sections : Section A and Section B. Assume missing data, if any.

Attempt (i) Section-A: All questions are compulsory.
(ii) Section-B: Attempt any FOUR QUESTIONS.

Section –A (All questions are compulsory) **4×5=20 Marks**

Q1. Explain the need for destructors in OOP.	CO1	BL2
Q2. Discuss Hybrid Inheritance and Virtual Base Class Aggregation.	CO2	BL4
Q3. Write a program to demonstrate constructor in template class with it's output.	CO3	BL6
Q4. What is the use of reference in function arguments?	CO1	BL1

Section –B (Attempt any Four questions) **4×10=40 Marks**

Q1. Discuss all unformatted input functions in C++ with syntax and examples.	CO3	BL2
Q2. Explain polymorphism in detail with diagram and examples.	CO2	BL4
Q3. Write advantages and limitations of function overriding.	CO2	BL1
Q4. Explain polymorphism using class hierarchy in details.	CO4	BL2
Q5. i) Write a program to show virtual function inside constructor. Also write an output of it. ii) Write a program to show why virtual function call does not work inside Constructor. Also write an output of it.	CO5	BL6
Q6. Write detailed notes on: • Code reusability • Modularity • Polymorphism • Concept of OOPs	CO1	BL2