

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.COM.CA- END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - III

21UCCCT3006- Objected Oriented Programming Using C++

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Explain the object-oriented programming paradigm with examples.
2. Describe the role of manipulators in C++.
3. Apply the different types of inheritance in C++ with examples.
4. Classify function prototyping with an example.
5. Illustrate operator overloading and type conversion in C++.
6. Relate inline functions to normal functions and explain their advantages in C++ programming.
7. Show what are console I/O operations in C++?
8. Ascertain the different models in Object-Oriented Programming (OOP) and briefly explain their significance.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Explain the principles of Object-Oriented Programming (OOP) with suitable examples.
10. Relate the different types of operators in C++ to their functionalities and explain their usage with examples.
11. Justify the need for constructors and destructors in C++ and explain their functionality with examples.
12. Compute the benefits of function overloading in terms of execution time and memory efficiency.
13. Appraise different types of inheritance in C++ with examples.
