

**BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2025**  
**2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY**  
**SEMESTER II - CORE COURSE (COMPUTER APPLICATIONS )**  
**CA2B04B18 - Object Oriented Programming Using C++**

Time : 3 Hours

Maximum Marks : 80

**Part A**

**I. Answer any Ten questions. Each question carries 2 marks****(10x2=20)**

1. Describe function prototype?
2. List out the ways to comment statement in C++?
3. Define Encapsulation?
4. Describe static member function with syntax.
5. Describe the access specifiers used in C++.
6. Define friend function.
7. Give the syntax of a parameterized constructor.
8. List the operators which cannot be overloaded.
9. Describe the syntax of multiple inheritance in C++.
10. Give the visibility of base class members in derived class?
11. Define streams.
12. Describe 'this' pointer?

**Part B**

**II. Answer any Six questions. Each question carries 5 marks****(6x5=30)**

13. Summarize the difference between Procedure Oriented Programming and Object Oriented Programming.
14. Illustrate the passing of object as function argument with a sample C++ program.
15. Distinguish between private and public access specifiers in C++.
16. Explain the use of copy constructor with a program.
17. Explain the concept of constructors with default arguments.
18. Explain how constructors are inherited when classes are inherited?
19. Write the general form for defining derived constructor in C++.
20. Describe the use of 'this' pointer with an example.
21. Describe the various approaches by which we can detect the end-of-file condition successfully.

**Part C**

**III. Answer any Two questions. Each question carries 15 marks****(2x15=30)**

22. Describe the different operators used in C++.
23. Discuss constructors? Explain its properties? Write a program to illustrate constructor overloading.
24. Define inheritance? Explain its different types? Illustrate single inheritance with a suitable example.
25. Explain, with an example, how you would create space for an array of objects using pointers?