ΓB222080W		Reg. No :
		Name :
	B. Sc. / B. Voc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 202	23

# 2022 Admissions Regular & 2021 Admissions Supplementary / Improvement And 2020, 2019 And 2018 Admissions Supplementary

## SEMESTER II - CORE COURSE (COMPUTER APPLICATIONS)

(Common for Computer Application & SWD)

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. Define Pointer?
- 2. Write the situations where inline expansion may not work?
- 3. Define Dynamic binding?
- 4. Discuss nesting of member functions?
- 5. Enumerate the different memory management operators used in C++?
- 6. Give the syntax for declaring a friend function.
- 7. List out the operators that cannot be overloaded using Friend function.
- 8. List the operators which cannot be overloaded.
- 9. Define virtual function?
- 10. Define visibility modes in C++?
- 11. Differentiate between ios :: nocreate & ios :: noreplace.
- 12. Define streams.

#### Part B

#### II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Distinguish between entry control loop and exit control loop.
- 14. Differentiate between structure and array.
- 15. Distinguish between private and public access specifiers in C++.
- 16. Explain the concept of constructors with default arguments.
- 17. List the operators which can be overloaded.
- 18. Explain the need of virtual functions?
- 19. Explain the importance of 'protected' visibility mode with sample code?
- 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. Define a class string and overload any two relational operators using instances of string.

- 24. Write a C++ program to implement multiple inheritance.
- 25. Explain, with an example, how you would create space for an array of objects using pointers?