Roll No. .....

## PAPER 1D-10598

## **B.C.A. EXAMINATION, 2024**

(Fourth Semester)

OBJECT ORIENTED PROGRAMMING
USING CO+

Code: CA-208

Time: 3 Hours

Maximum Marks : 80

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

## (Compulsory Question)

- 1. (a) Define Object oriented programming.
  - (b) What do you mean by flow control?
  - (c) What is Private visibility in C++?
  - (d) Which operator is used for dynamic memory allocation?
  - (e) Explain virtual function.
  - (f) Can we use multiple inheritance in C++?
    How?
  - What is the term denoting resource capture?
  - (h) What is namespace in C++?  $8\times2=16$

## Unit I

- 2. (a) Explain the following:
  - (i) Polymorphism
  - (ii) Encapsulation.
  - (b) What are the differences between POP and OOP?

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3.	Explain the following:	16 7	. Explain in detail with suitable programming
	(a) Recursion		example:
	(b) String data type	· O/ ·	(a) Friend function 8
	(с) Агтау		(b) Static Function. 8
	(d) Resolution and Ternary Operator.	My.	Unit IV
	Unit II	8	. What is Exception ? How is it handled in
4.	What do you mean by constructor? Exp		C++? Explain in detail. 16
	in detail its types with example. Also explestructor with example.	plain 16 9	To tonowing with example : 10
5.	(a) What down you mean by men management? How is it implemented	mory ed in	(a) Template class (b) Template function
	C++.	10	(c) Iterators and hash
	6 Explain "This" and Assignment ope	erator	(d) Namespace.
	with example	6	
	Unit III		
6,	(a) How inheritance play role in reusin code? Explain Multilevel inheritan		
	detail with example.	8.	
	(b) Write a program to overriding me	ember	
	function in C++.	8	