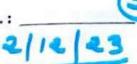
Seat No. :



## **DB-103**

December-2023

## BCA., Sem.-III

CC-203: Object Oriented Concepts and Programming

3

DB-103

[Max. Marks: 70 Time: 21/2 Hours] 14 Answer the following questions: 7 Write short note on function overloading with suitable example. 7 List and explain all access specifiers used in C++. 7 Write short note on this pointer with suitable example. (i) 7 (ii) Explain the Concept of Inline Function with example. 14 Answer the following questions: 2. What is Constructor? Explain the concept of Copy Constructor with Example. 7 7 (ii) Explain the concept of Friend Function with Example. OR 7 Write a short note on Dynamic Memory Allocation in C++. (i) What is Destructor? Explain the concept and characteristics of Destructor with (ii) 7 example. 14 Answer the following questions: 3. Explain the concept of multiple inheritance with suitable example. 7 (i) 7 What is function overriding in inheritance? Explain with example. (ii) What is virtual base class? How to create it? Explain by taking a suitable (i) 7 example. 7 Explain the concept of Pure Virtual Function with example. (ii) 14 Answer the following questions: 4. Demonstrate the overloading of any one arithmetic operator with Example. 7 How to do type conversion from class type to basic type? Explain by example. 7 (ii) OR How to overload function template with ordinary function? Explain with (i) 7 example. 7 Explain get(), getline() and put() function in C++ with Example. (ii) P.T.O. 1

5. Attempt any seven:	19
(1) What is the primary purpose of inheritance in C++?	
(A) Code reuse (B) Code obfuscation	
(C) Code optimization (D) Code encryption	
(2) Function overloading in C++ is also known as:	
(A) Early binding (B) Late binding	
(C) Static polymorphism (D) Dynamic polymorphism	
(3) Define Data Hiding.	
(4) A Constructor that accepts no. of parameters is called the defaution.	ılt
(5) Private members in a class are never inherited. (True/False)	
(6) Function Overloading is an example of polymorphism.	
(7) When a derived class redefines a few discountries.	
(7) When a derived class redefines a function of the base class, it is an example of:  (A) Function overloading  (B) Function overriding	(
(C) Function inharity (B) Function overriding	
(D) Function modeling	
and is the primary purpose of function templates in C+12	
define regular functions	
(B) To create generic functions that work with multiple data types  (C) To write faster code	
(C) To write faster code	
(D) To enhance code readability	
(9) What is operator overloading in C++?	
(A) Overloading the CPI with	
(A) Overloading the CPU with too many operations (B) Defining new operators in C++	
(C) Reusing existing	
existing operators to work with war 1 G	
	_
function. (True / False) inside class then by default it becomes inline	0
A class naving pure virtual function:	
(12) Memory size of an object is sum of size of each member data in a class. (True / False)	
False) False)	
No. 201	