

## BCA Sem.-3 Examination

## CC 203

## Object Oriented Concept &amp; Programming

Time : 2.30 Hours]

December-2025

[Max.Marks : 70

- 1 (A) What is function overloading? [07]
- 1 (B) What is difference between Procedure Oriented Programming and Object Oriented Programming? [07]
- OR
- 1 (A) Explain "this" operator in detail. [07]
- 1 (B) Explain Access Specifier and its characteristics in detail. [07]
- 2 (A) Explain Friend function in detail. [07]
- 2 (B) Explain how to allocate memory dynamically in OOP. [07]
- OR
- 2 (A) What is Constructor? Explain any two types of constructor in detail. [07]
- 2 (B) Explain nested classes in detail. [07]
- 3 (A) What is Inheritance? Explain different types of it. [07]
- 3 (B) What is difference between Early Binding and Late Binding? [07]
- OR
- 3 (A) What is Virtual Function? What are the rules for it? [07]
- 3 (B) Explain how we initialize members of base class through derived class object. [07]
- 4 (A) Explain various type conversions in detail. [07]
- 4 (B) Explain get() and getline() functions in detail. [07]
- OR
- 4 (A) What is Template? Explain function templates with multiple parameters in detail. [07]
- 4 (B) Explain different stream class model of C++. [07]

## Section-II

- 5 Choose the correct option: (Attempt any seven out of twelve) [14]
- (1) Abstract class is \_\_\_\_.
- A A class must contain all pure virtual functions
- B A class must contain pure virtual function defined outside the class.
- C A class must contain at least one pure virtual function
- D A class may not contain pure virtual function.
- (2) Which of the following is not the keyword in C++?
- A Volatile
- B Friend
- C This
- D Extends
- (3) Which feature of the OOPS gives the concept of reusability?
- A Abstraction
- B Encapsulation
- C inheritance
- D None of the above
- (4) Class member function can be defined outside class using \_\_\_\_\_ symbol.
- A :
- B ::
- C #
- D \*\*
- (5) It is \_\_\_\_\_ to declare private section before public section in a class Design.
- A Not compulsory
- B Compulsory
- C May be Compulsory
- D None of the above
- (6) Allocation of memory is done using \_\_\_\_\_ keyword.
- A new
- B Allocate
- C delete
- D None of the above
- (7) C and C++ are same. (True/False)
- (8) C is an object oriented language. (True/False)
- (9) Each function should return a value. (True/False)
- (10) The function can take multiple parameters and can return no values. (True/False)
- (11) Friend Function can access private members of the class. (True/False)
- (12) We can define only data members in class. (True/False)

