

# CBCS SCHEME

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BPLCK205D/BPLCKD205

**Second Semester B.E./B.Tech. Degree Supplementary Examination,  
June/July 2024**

## Introduction to C++ Programming

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1				M	L	C
Q.1	a.	Write the basic syntax of C++ program. Explain with a suitable example.	10	L2	CO1	
	b.	State the difference between C and C++ programs.	05	L2	CO1	
	c.	Write short notes on Class in C++ with a suitable example.	05	L2	CO1	
OR						
Q.2		Make use of necessary examples to explain the following concepts: (i) Abstraction (ii) Encapsulation (iii) Inheritance (iv) Polymorphism	20	L2	CO1	
Module – 2						
Q.3	a.	Explain the following terms with suitable examples: (i) Keywords (ii) Identifiers (iii) Constants	10	L2	CO1	
	b.	Describe in details about the different types of operators used in C++ with an example.	10	L2	CO1	
OR						
Q.4	a.	Make use of necessary examples to explain any five types of expressions used in C++.	10	L2	CO1	
	b.	Develop C++ program to swap two values by writing function that uses call by reference concept.	10	L3	CO1	
Module – 3						
Q.5	a.	What is constructor? How constructors are different from a normal member function? Explain the constructor with suitable C++ program.	10	L2	CO1	
	b.	Define Inheritance. Explain the single inheritance concept with an example.	10	L2	CO3	
OR						
Q.6	a.	Demonstrate the concept of destructor with an example.	10	L2	CO1	
	b.	Discuss in detail about the multiple inheritance with suitable C++ program.	10	L3	CO3	
Module – 4						
Q.7	a.	With a neat diagram, explain the C++ class hierarchy.	05	L2	CO2	
	b.	Discuss in detail about the file stream.	05	L2	CO4	
	c.	Write a C++ program to create a test file, check file created or not, if created it will write some text into the file and then read the text from the file.	10	L3	CO4	
OR						
Q.8	a.	What is text file? Describe in details about the text file handling in C++.	10	L2	CO4	
	b.	Develop a C++ program to read and write on binary file.	10	L3	CO4	
Module – 5						
Q.9	a.	Define Exception Handling. Explain the exception handling mechanism with an example.	10	L2	CO4	
	b.	Write a function which throws a division by zero exception and catch it in latch block. Write a C++ program to demonstrate usage of try, catch and throw to handle exception.	10	L3	CO4	
OR						
Q.10	a.	Write short note on Throwing Mechanism.	05	L2	CO4	
	b.	Discuss in detail about the catching mechanism with an example.	05	L2	CO4	
	c.	Explain about the rethrowing an exception with an example.	10	L2	CO4	

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