



First Semester B.E./B.Tech. Degree Examination, June/July 2025

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.	Describe the structure of C++ program with syntax and suitable program.		10	L2	CO1
	b.	Explain message passing with an example program.		10	L2	CO1
OR						
Q.2	a.	What is the need of Abstract class in C++? Discuss with an example.		10	L2	CO1
	b.	Write a C++ program to find the Sum of all the natural numbers from 1 to N?		5	L3	CO1
	c.	Discuss object and classes in brief.		5	L2	CO1
Module – 2						
Q.3	a.	What is a token? List the various types and explain in brief.		10	L2	CO1
	b.	Explain inline function with a suitable programming example.		10	L2	CO2
OR						
Q.4	a.	List the different types of operators in C++. Explain any three important operators and illustrate their usage in C++ program.		10	L3	CO2
	b.	Write a C++ program to demonstrate function overloading for the following prototype add (int a, int b) add (double a, double b).		10	L3	CO2
Module – 3						
Q.5	a.	Explain single inheritance with suitable programming example.		10	L2	CO2
	b.	Define constructor give the general syntax for different types of constructor and illustrate the same with suitable example program.		10	L2	CO3
OR						
Q.6	a.	Describe the importance of destructors and explain it with a suitable C++ program.		10	L2	CO3
	b.	Describe the syntax of multiple inheritance with an example program.		10	L2	CO3
Module – 4						
Q.7	a.	Write a note on I/O streams.		10	L2	CO1
	b.	Write a C++ program to create a text 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.	Explain the uses of ifstream and ofstream classes for file input and output.		10	L2	CO2
	b.	Write a C++ program to write and read time into/from binary file using f-stream.		10	L3	CO4
Module – 5						
Q.9	a.	Define exception, explain mechanism of exception handling in C++ with syntax and programming example.		10	L2	CO4
	b.	What is array of bound, write a C++ program, which handles array of bound exception?		10	L3	CO4
OR						
Q.10	a.	Discuss multiple catch statements with syntax and programming example.		10	L2	CO4
	b.	Write a function which throw a division by zero exception and catch it in catch blocks write a C++ program to demonstrate the usage of try, catch and throw to handle exception.		10	L3	CO4