

CBCS SCHEME

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BPLCK105D

First Semester B.E./B.Tech. Degree Examination, June/July 2026

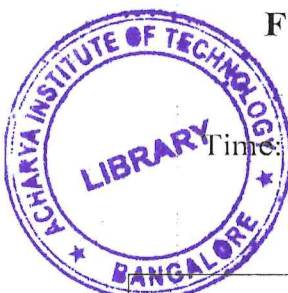
Introduction to C++ Programming

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.	Explain Basic C++ program with syntax and example.		10	L2	CO1
	b.	Write a C++ program to find the sum of first N natural numbers.		10	L3	CO1
OR						
Q.2	a.	Define the following terms with example for each: i) Class ii) Object iii) Inheritance iv) Polymorphism v) Encapsulation		10	L2	CO1
	b.	Write a C++ program to sort elements in ascending and descending order.		10	L3	CO1
Module – 2						
Q.3	a.	What are Tokens? Explain different types of token in C++ with example.		10	L2	CO2
	b.	Explain different types of Special Assignment Expression.		06	L2	CO2
	c.	Explain Increment and Decrement operators.		04	L2	CO2
OR						
Q.4	a.	Define Inline Function. Write syntax to declare inline function with program example.		06	L2	CO2
	b.	Differentiate between Call-by-value and Call-by-reference.		04	L1	CO2
	c.	Write a C++ program to demonstrate function overloading for following prototype: area(int a); area(int l, int b);		10	L2	CO2
Module – 3						
Q.5	a.	What is a Constructor? How do you invoke a constructor function and list some special properties of constructor functions.		06	L2	CO3
	b.	Demonstrate Parameterized constructor with program example.		07	L2	CO3
	c.	Define Destructor. Describe the importance of destructor with program example.		07	L2	CO3

OR

Q.6	a.	Define Inheritance. Explain different types of inheritance with neat diagram.	10	L2	CO3
	b.	Create a class named Vehicle with a function that prints "Vehicle started". Create another class named Car inheriting the vehicle class with the same function that prints "Car started". Create another class named Bus having same function that prints "Bus started". Now try calling the function by the object of each of these classes.	10	L3	CO3

Module – 4

Q.7	a.	What are C++ Streams? With a neat diagram explain C++ stream class hierarchy.	10	L2	CO4
	b.	Write a C++ program to copy content of one file to another file.	10	L3	CO4

OR

Q.8	a.	Explain different functions used to open, close, read and write data in text file.	10	L2	CO4
	b.	Write C++ program to illustrate get() and put() functions.	10	L3	CO4

Module – 5

Q.9	a.	Explain Exception Handling Mechanism in C++.	10	L2	CO4
	b.	Write C++ program with function try and catch.	10	L3	CO4

OR

Q.10	a.	Demonstrate Rethrowing an Exception in C++ with program.	10	L2	CO4
	b.	Write a C++ program with multiple catch statements.	10	L3	CO4
