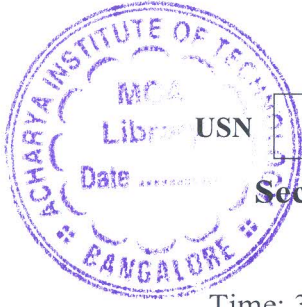# MAKE-UP EXAM

USN | | | | | | | | | |

BPLCK205D/BPLCKD205

Second Semester B.E./B.Tech. Degree Examination, Nov./Dec.2023
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.	Enumerate the basic C++ program syntax with example.	10	L2	CO1
	b.	Describe the need for C++ programming language and advantages of OOP's.	10	L2	CO1
		OR			
Q.2	a.	Explain with example object and class in OOPs.	10	L2	CO1
	b.	Explain with example data abstraction and encapsulation in OOPs.	10	L2	CO1
		Module – 2			
Q.3	a.	Define the term keywords and identifiers and also write the rules for defining identifiers.	10	L2	CO2
	b.	Write a C++ program to sort elements in ascending order.	10	L3	CO2
		OR			
Q.4	a.	Describe different data types in C++.	10	L2	CO2
	b.	Write a C++ program to find sum of all the natural numbers from 1 to n.	10	L3	CO2
		Module – 3			
Q.5	a.	Define constructor. What are the characteristics of constructor, illustrate with an example.	10	L2	CO3
	b.	Write a C++ program to swap 2 values by call by reference technique.	10	L3	CO3
		OR			
Q.6	a.	Define Inheritance. Illustrate the different types of inheritance with flow chart representation.	10	L2	CO3
	b.	Write a C++ program to demonstrate function overloading.	10	L3	CO3
		Module – 4			
Q.7	a.	Explain the stream class hierarchy with a neat diagram.	10	L2	CO3
	b.	Write a C++ program to copy the content on one file to another.	10	L3	CO3

		OR	10	L2	CO3
Q.8	a.	Illustrate various function used to open, close, read and write data in text files.	10	L2	CO3
	b.	Develop a C++ program to append "VTU" and "BELGAVI" texts to a file and display it on the monitor.	10	L3	CO3
		Module – 5			
Q.9	a.	Illustrate exception in C++ program. Benefits of exception handling.	10	L2	CO4
	b.	Write a C++ program with a function which throws a division by zero exception and catch it in catch block.	10	L3	CO4
		OR			
Q.10	a.	Discuss Exception handling mechanisms in C++.	10	L2	CO4
	b.	Develop a C++ program function which handles array bounds exception.	10	L3	CO4

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