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ADITYA ENGINEERING COLLEGE (A) B. Tech – III Semester End Examinations Regular (AR20) – JAN 2022

OBJECT ORIENTED PROGRAMMING THROUGH C++

(Common to CSE & IT)

		(Common to USE & 11)	Ml-	7 0			
			. Mark	s: 70			
		Answer ONE question from each unit					
All Questions Carry Equal Marks							
All parts of the questions must be answered at one place only							
UN	III -						
1	a	Differentiate C and C++.	K2	CO1	[8M]		
	b	State the advantages of OOP.	K2	CO2	[6M]		
		OR					
2	_	Discuss the Key Concepts of OOP.	K2	CO ₂	[8M]		
	b	Explain namespaces in C++ with an example.	K2	CO1	[6M]		

	IIT -		17.0	002	[7] (]		
3	a 1.	Explain the Rules for using Inline Function.	K2	CO2	[7M]		
	b	Write a C++ program to demonstrate the concept of Friend function.	K3	CO2	[7M]		
1		OR Explain the Characteristics of Constructor & Destructors in Cl. 1	K2	CO2	[7] [7]		
4	a L	Explain the Characteristics of Constructor & Destructors in C++.		CO3	[7M]		
	b	Write a C++ program to demonstrate Constructor and function Overloading.	1 K3	CO3	[7M]		
		Overloading.					
IIN	UNIT – III						
5	a	Write a C++ Program to demonstrate Operator overloading using Friend	1 K3	CO4	[8M]		
5	а	Function.	1 13	COT	[OIVI]		
	b	Explain various rules to be followed for Overloading Operators.	K2	CO4	[6M]		
	Ü	OR	112		[01/1]		
6	a	Explain various types of inheritance in C++.	K2	CO5	[7M]		
	b	What is virtual function? With an example demonstrate the usage of virtual		CO4	[7M]		
		function.					
UN	III -	- IV					
7	a	Write a C++ program to sort an unordered list of elements using function	1 K3	CO6	[7M]		
		templates.					
	b	How many types of templates are there in C++? Explain with an example.	K2	CO6	[7M]		
		OR					
8	a	Explain the difference between templates and macros.	K2	CO6	[4M]		
	b	Define generic programming? Explain about function templates in detail.	K2	CO6	[8M]		
TIN	TTT	T 7					
01 9	· TIV	 V Define exception handling. Explain various keywords involved in C+- 	. V2	CO4	[7] [7]		
9	a	exception handling. Explain various keywords involved in C+-	- K2	CO4	[7M]		
	b	Define STL.Discuss various components of STL.	K2	CO6	[7M]		
	U	OR	13.2	200	[,141]		
10	a	Describe about multiple catch statements for handling exceptions.	K2	CO4	[7M]		
10	a b	Write short note on Iterator in STL.	K2 K2	CO4	[7M]		
	J	*****	114	200	[,141]		