PRN No.	
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PAPER CODE 1114-3

U114-373(Back)

December 2024 (BACKLOGEXAM)

F.Y.B.TECH (SEMESTER - I) CSE(IoTCSBT)

COURSE NAME: CRITICAL THINKING, PROBLEM SOLVING AND PROGRAMMING

COURSE CODE: CI11236

(PATTERN 2023)

Time: [2 Hrs]

[Max. Marks: 60]

- (*) Instructions to candidates:
 - 1) Use of scientific calculator is allowed
 - 2) Use suitable data where ever required

3) All questions are compulsory. Solve any THREE sub questions from EACH question

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
				-
Q.1	Solve any three sub questions from the following.			
		r.==1.2		-
	a) Recall the importance of the critical thinking standards.	[5]	CO1	
	b) Analyse how critical thinking affects the process of making decisions.	[5]	CO1	4
	b) Describe the steps in the critical thinking process.	[5]	CO1	2
	,	(~1	001	2
	d) Recognise the differences between critical and creative thinking.	[5]	CO1	3
Q2	Solve any three sub questions from the following.			
	a) What are the essential steps in the engineering problem solving process?	[5]	CO2	1
		[5]	CO2	
	b) Identify and describe the differences between local and global variables.			2
		[5]	CO2	3 ′
	c) Provide an appropriate example to illustrate "Call by Value."		and the state of t	3
	d) Apply recursion to the Fibonacci series.	[5]	CO2	
Q3.	Solve any three sub questions from the following.			

	a) Can you describe the for and while loops used in C+ ?? Provide examples.	[5]	CO3	1
Allowy History Control of the Contro	b) Apply function overloading in a C++ program to showe se its advantages.	[5]	CO3	3
- I - Withday I	c) Assess the significance of decision control structure (Ifelse) in C++ programming.	[5]	CO3	4
	d) Create a class in C++ that demonstrates the basics of console input and output.	· [5]	CO3	3
Q.4	Solve any three sub questions from the following.			
		·		
	a) Design Student Class and create 3 objects.	[5]	CO4	1
1	b) Summarise importance of a class's constructors and	[5]	CO4	2.
	destructors.	[5]	CO4	2
	c) Describe the concept of C++ friend functions.	[5]	CO4	3.
	d) Examine and contrast the various C++ inheritance ypes.			
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Note-[BT level 1. Remember 2. Understand 3. Apply 4 Analyze 5. Evaluate 6. Create]