	MGM University, Chhatrapati Sambhajinagar Jawaharlal Nehru Engineering College			
	CA 1 Examination Course: SY Chemical Engineering Subject Name: Process Instrumentation and Control Max Marks: 10 Date: 02.02.2024 Subject Code: 20UCH405D Duration:- 1 Hr.		r	
	N.B.; i. Question any TWO questions from following. ii. Assume suitable data, if required and draw neat sketches whenever needed. iii. Figure to right indicate full marks	547		5 i i i
		СО	BL	Marks
Q. 1	What is meant by measurement? State the function of measurement system	1	Understanding	5
Q. 2	State and explain functional elements of instruments with example	1	Applying	-5
Q. 3	What is mean by static error and dynamic error of instrument?	1	Remembering	5

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	Continuous Assessment 1 - February 2024			
	Course: B. Tech in Chemical Engineering Semester:			8.
	Subject Name: Chemical Engineering Thermodynamics-I Subject Code: 20UCH402D Max Marks: 10 Date:- 02-02-2024 Duration:- 1 Hr.	in the second se		
	Instructions to the Students: 1. Answer all the questions. Write down all parts of the question in same place. 2. Data book (clean copy) and calculator are allowed. Exchange of data book and calculator are not permitted. 3. Missing data may be suitably assumed, if any			¢
		со	BL	Mark
	Solve Any two of the following.	18 88 8 94		5x
Q. 1	A balloon which was originally empty is being filled with hydrogen from a cylinder at constant temperature of 300 K. The atm pressure is 1.01 bar. What is the work done by balloon cylinder system when the balloon attains a spherical shape 6 m in diameter?	CO1	3	
Q. 2	Prove that heat supplied is equal to the change in eternal energy for a constant volume process and the change in enthalpy a constant pressure process?	CO1	3	
Q. 3	What do you mean by a cycle process? State and explain the first law of cyclic process.	CO1	3	
12.	*** Best of Luck ***	100		* j

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	Continuous Assessment 1 – February 2024	120		
	Course: B. Tech in Chemical Engineering Semester:	- IS		
	Subject Name: Chemical Engineering Thermodynamics-I Subject Code: 20UCH402D			
e nguniyi Jeli kalp	Max Marks: 10 Date:- 02-02-2024 Duration:- 1 Hr.			
₹ .j.ç₹	Answer all the questions. Write down all parts of the question in same place. Data book (clean copy) and calculator are allowed. Exchange of data book and calculator are not permitted. Missing data may be suitably assumed, if any			7
		со	BL	Marks
	Solve Any two of the following.			5x2
Q.1	A balloon which was originally empty is being filled with hydrogen from a cylinder at constant temperature of 300 K. The atm pressure is 1.01 bar. What is the work done by balloon cylinder system when the balloon attains a spherical shape 6 m in diameter?	CO1	3	- 5
Q. 2	Prove that heat supplied is equal to the change in eternal energy for a constant volume process and the change in enthalpy a constant pressure process?	CO1	3	5
Q. 3	What do you mean by a cycle process? State and explain the first law of cyclic process.	CO1	3	5
CONT. 192421	*** Best of Luck ***	1.2	Harris I	

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Course : SY B.Tech	Continuous Assessment I	Sub: IPC	
Time: 30 min	Date: \$-2-2024	Code: 20UCH404D	
struction: Attempt all	Date: 5-2-2024	Marks: 10	

01	President the Management of th	CO	BL	Marks
٧-	Explain the Types of Pollution.	1	3	2
Q2	Describe the Air Pollution Sources.	-	-	
Q3	Explain the specific categories of use of water.	1	3	2
	Give the different Characteristics of Wastewater.	1	3	2
	amerent characteristics of wastewater.	1	3	4



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Course : SY. B.Tech	Continuous Assessment I	Sub: CAI Code: 20UCH401D
Time: 30 min	Date: -2-2024	Marks: 10

Instruction: Attempt all Questions

-		CO	BL	Marks
~ 1	Explain the sources of Salts in the manufacture of Soda Ash.	1	3	2
Q1 Q2	Give the manufacturing Flow chart involved in Solvay Process.	1	3	2
Q2 Q3	What are the major Engineering Problems involved in Dual Process?	1	3	2
Q4	Describe the manufacturing process of Soda Ash by Dual Process with neat Block Diagram with Labels.	1	3	4

