

Total No. of Questions – [2]

Total No. of Printed Pages:1

G.R. No.	
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PAPER CODE	U124-3114
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March 2024 (INSEM) EXAM
F.Y.B. TECH. MECHANICAL (SEMESTER - II)
COURSE NAME: INSTRUMENTATION AND CONTROL
COURSE CODE: ME12234
(PATTERN 2023)

Time: [40 Min]

[Max. Marks: 20]

(*) Instructions to candidates:

- 1) **Figures to the right indicate full marks.**
- 2) **Use of scientific calculator is allowed**
- 3) **Use suitable data wherever required**
- 4) **Solve any two sub questions from Question 1 and 2**

Question No.	Question Description	Marks	CO mapped	Blooms Taxonomy Level
Q.1	a) Explain the Instrument use for the measurement of flow of a slurry or paper pulp.	[5]	1	2
	b) Compare the following with example 1) Accuracy and Precision 2) Threshold and Resolution	[5]	1	2
	c) Describe the working principle and construction details of LVDT.	[5]	1	2
Q2	a) Illustrate the Solenoid and Relay in electric circuits with construction and application.	[5]	2	3
	b) Sketch the line diagram of 3-Phase AC motor and explain its working principal.	[5]	2	3
	c) Interpret the working of Stepper motor with neat sketch	[5]	2	3

Note: BT level-1-Remember ,2-Understand, 3-Apply, 4-Analyze, 5 -Evaluate ,6- Create

