Name: Printed Pages: 01
Student University Roll No.:

School of Engineering

First Sessional Examination, Odd Semester (AS: 2023-24)
B. Tech: AI, CCML,IOTBC [Year: 2] [Semester: 3]

Course Title: AI in Mechanical Engineering
Course Code: BAI 3302

Max Marks: 30
Time:

Instructions: Read the question Carefully.

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	SECTION 'A' Q.N.1. Attempt all parts of the following:		СО	Marks			
	a)	What is Artificial Intelligence ?	CO1	1			
	67	Define Automation.	CO2	1			
	c)	Name Machine learning methods,	COI	1			
	d)	What do you mean by Actuators.	CO2	1			
	e)	Define hydraulic Actuator.	CO1	1			
SECTION 'B' Q.N.2. Attempt any two parts of the following:			СО	Marks			
	a)	Define Control System with a block diagram.	CO2	7.5			
	b)	What are Sensors? Explain with a example.	CO2	7.5			
	c)	How Machine Learning works?	COI	7.5			
1	d)	What are the Levels of Automation.	CO2	7.5			
SECTION 'C' Q.N.3. Attempt any One part of the following: CO Ma				Marks			
		Briefly explain Analog to Digital Conversion.	CO2	10			
	b	How AI is used to improve upon a Mechanical system.	CO1	10			
	С	What is Machine Learning? How it's benefits can be used with AI in Mechanical Engineering.	COI	10			

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks		
CO1	1(a),1(c),1(e),2(c),3(b),3(c)	30.5		
CO2	1(b),1(d),2(a),2(b),3(a)	27.		