

ADMISSION NUMBER												

School of Engineering B.TECH Mechanical Engineering in E-Vehicles and Autonomous Vehicles Mid Term Examination - May 2024

Duration : 90 Minutes Max Marks : 50

Sem VI - G3UC602B - Robotics

General Instructions Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	Explain different types of sensors commonly used in robotics.				
2)	Define point-to-point control system in robotics.	K1 (3)			
3)	Explain the concept of continuous path control in robotic systems. How does it enable smooth and precise motion?	K2 (4)			
4)	Interpret the mapping involving mechanism for translated frames and rotated frames.	K2 (6)			
5)	Identify the primary functions of manipulators in industrial settings.	K3 (6)			
6)	Illustrate the advantages and limitations of point-to-point control in robotic applications.	K3 (9)			
7)	Compare the different types of drives used in robotic systems, including their principles of operation and applications.	K4 (8)			
8)	Analyze the unimation PUMA 560 robot with neat sketch	K4 (12)			
OR					
	Analyze about the Homogenous Transform and its Inverse in Robot Transform.	K4 (12)			