

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Mechanical Engineering Backlog Examination, June 2023 [Programme:B.Tech] [Semester:VI] [Batch: 2022-23]				
Course Title: Robotics		Max Marks: 100		
Course Code: BTME3052		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	Present the definition of Robotics.	K2	CO1	5
2.	Explain in brief the control system used in Robotics.	K3	CO2	5
3.	Describe the application of Proximity sensors used in Robotics.	K3	CO3	5
SECTION-B (40 Marks)		10 Marks each		
4.	List down the manipulators used in Robotics and explain any one them in detail with neat sketch.	K2	CO2	10
5.	Explain the digitization technique used in Robotics.	K3	CO3	10
6.	Explain Artificial Intelligence (AI), and application of it in Robotics.	K3	CO4	10
7.	Present the application of Robotics in the field of Welding Industry. OR Present the application of Robotics in hostile environment.	K3	CO5	10
SECTION-C (45 Marks)		15 Marks each		
8.	Present the comparative study of Point to Point and Continuous path control methods used in Robotics.	K3	CO1	15
9.	Examine the feedback system used in Robotics in details.	K4	CO2	15
10	Examine in detail the usefulness of Robotics in manufacturing industry. OR Examine in detail the usefulness of Robotics in material handling application, especially in dangerous environment.	K4	CO5	15