

	O. Code:850480				
s.	L		5	2	
			5	2	
0 = 50 Marks)					
		Marks	CO	RBT LEVEL	
c work envelope.		(10)	1	3	
ctions.		(5)	1	3	
f robotics		(5)	1	3	
o be considered in a r.	assessing	(10)	2	3	
e magnitude of th	ie image	(10)	2	3	

3

(10)3 (10) 4

Q. Code:850480

		(OR)			
(b)	(i)	Compare the Continuous vs Discrete control system.	(10)	4	4
	(ii)	With a short note distinguish between Linear and Non-linear control.	(10)	4	4
25. (a)	(a) Classify and explain the processing operations performed by a robot in industries.		(10)	5	4

(OR)

(b)

Compare Wheeled robots and Wall climbing robots. (10) 5 4

<u>PART- C (1 x 10 = 10 Marks)</u>

(Q.No.26 is compulsory)

Marks CO RBT LEVEL Solve the inverse kinematics of the 2-DOF manipulator shown in figure 2 for (10) 3 26. 5 the given DH parameter.



i	θ_i	α_{i-1}	a _{i-1}	di
1	θ_1	0	0	0
2	θ_2	0	l_1	0
3	0	0	12	0

DH parameter

Q. Code:850480