SIES Graduate School of Technology

Subject : Hand CA

Roll No .: 119/1076

Assignment No. 2

Date : 27/11/20

Q1)		CO VIV		1 1 1 1 1 1	<u> </u>	
Liony - Bar	sky algorith	m is al	so called	pasame	Hic olg	odithm
att proacs	as	it uses	pulamen	ric eq	uahan.	of lix acreptano of hym
Cohen.	- Suffert	and	15 good.	af f	8/1/4/	acrep tono
091	rejection	cases	01 :	y - Obsk	by alg	ofifiger
dinni	Significant	more	effect 4	vhla	actual	
dipping i	s required					

$$(x_1, y_1) = (5, 10)$$

$$(x_2, y_1) = (35, 30)$$

$$(x_{min}, y_{min}) = (10, 10)$$

$$(x_{max}, y_{max}) = (20, 20)$$

$$p_{1} = -Ay_{1} = -(y_{1} - y_{1}) = -30p \quad (<0)$$

$$p_{2} = 0y_{1} = -30 \quad (70)$$

$$p_{3} = -Ay_{1} = -(y_{2} - y_{1}) = -20 \quad (<0)$$

$$p_{4} = 0$$

$$8_1 = \frac{q_1}{p_1} = \frac{1}{6}$$
 $8_2 = \frac{q_2}{p_2} = \frac{1}{2}$

$$\delta_3 = \frac{q_3}{p_4} = 0$$
 $\delta_4 = \frac{q_4}{p_4} = \frac{1}{2}$

$\chi_{i}' = \chi_{i} + \Lambda \chi_{i} u_{i}$ $\chi_{i}' = \chi_{i} + \Lambda \chi_{i} u_{i}$	$= 5 + (30 \times \%) = 10$ $= 10 + (20 \times \%) = 13.33$
x' = x + a x u,	= 5 + (30 ×//2) = 20
1' = y, + Ay	1-92- 10+ (20 x/2) = 26
the one will be a second	
$(\gamma, ', \beta') = (10)$, 13-33)
(201 41)- (20	2 20)
$(\gamma_2', \beta_2') = (20)$	(a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
(3)	
(x, y) = (35,60)	(2 (7 c 1 4 2) = (8 4 25)
(Knin, Jain) - (10, 10)	(yhar t char) = (50,50)
P = - Dx = -47	(< 0)
p2 = 07= 45	(>0)
P3 = -Ay = 35	(70) (<0)
ps = Ay = -35	
9, = 25	92=15
9 = 50	g = -10
(= -0.556	$f_2 = 0.333$
13= 1.421	1/4 = 0.285
4= har (0, -05)	(22 K) =0.286
42 = min(1, 1-42	8, 0.333)=0.333
7 h	
x' = x + Ax-u,	= 15 + (G5 x 6.215) = 4785
y'- 4+ Ay-4, -	= 60 + (-35 × 0-285) - 50-025

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Assignment No. 1

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$$\gamma_{2}' = x_{1} + \Delta x_{2} u_{2} = 35 + (45 \times 0.333) = 56$$

$$J_{2}' = y_{1} + \Delta x_{2} u_{2} = 60 + (-35 \times 0.333) = 48.345$$

$$(x_{1}', y_{1}') = (47.825, 50.025)$$

$$(x_{2}', y_{3}') = (50, 48.345)$$

Question 2

1 2 1 2 (0) 0 3= 41 Zsind

15= 2x + 21, 009 y= + 21, 117\$

	1	6	2,000	0
	C	1	2,0014	0
MZ	0	6	0	
	6	б	0	6

as we have the state of the same of the sa The cure posses through endpoints $Q(t) = 7 \cdot 18 \cdot 1_{g} = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 \\ 3 & -6 & 3 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 61 \\ 1 \\ 1 \\ 25 \end{bmatrix}$ $= \begin{cases} \frac{1}{3}, & f^2 \neq 1 \end{cases} \begin{cases} -7 & f_0 \\ \frac{1}{3}, & -3 \end{cases}$ = \langle -7+3 + 15+2+4 (6+3-3)+2 +21++1] + 70 , Q(o) = [4 i] f -> 0-2 (a(a.2) =[4.544 4.008] f -> 6-9 (6(0-4) = \(3-452 \) 5-144) f-> 0-6, Q(0-6) = [7-888 5-176] +-, 6-8, a(0.8) = [(0.016 9-872)

Page No.