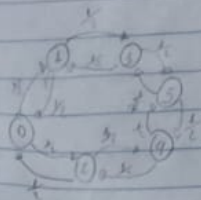


Prob. 3

(a)



(b) $P_1 = [0.5, 0.5]$

P_{00}	P_{01}	P_{02}	P_{03}	P_{04}	P_{05}
P_{10}	P_{11}	P_{12}	P_{13}	P_{14}	P_{15}
P_{20}	P_{21}	P_{22}	P_{23}	P_{24}	P_{25}
P_{30}	P_{31}	P_{32}	P_{33}	P_{34}	P_{35}
P_{40}	P_{41}	P_{42}	P_{43}	P_{44}	P_{45}
P_{50}	P_{51}	P_{52}	P_{53}	P_{54}	P_{55}

$P_1 = [0.5, 0.5]$

0	0.5	0.5	0	0	0
0.5	0	0	0.5	0	0
0.5	0	0	0	0.5	0
0	0.5	0	0	0	0.5
0	0	0.5	0	0	0.5
0	0	0	0.5	0.5	0

$P_2 = [0.5, 0.5]$

(c) $P_2 = [0.5, 0.5]$

0	0.5	0.5	0	0	0
0.5	0	0	0.5	0	0
0.5	0	0	0	0.5	0
0	0.5	0	0	0	0.5
0	0	0.5	0	0	0.5
0	0	0	0.5	0.5	0

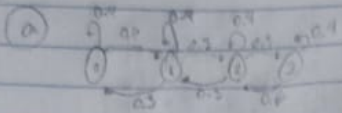
$\Rightarrow P_3 = [0.5, 0.5]$

(d)

1 2 3 4 5 6 7 8 9 10

Lat 3

2



$P[0.3, 0.6]$	P_{00}	P_{01}	P_{02}	P_{03}
	P_{10}	P_{11}	P_{12}	P_{13}
	P_{20}	P_{21}	P_{22}	P_{23}
	P_{30}	P_{31}	P_{32}	P_{33}

$P[0.4, 0.6]$	0.4	0.6	0	0
	0.3	0.4	0.3	0
	0	0.3	0.4	0.3
	0	0	0.6	0.4

3