$\rho = 0.70$ 9, = 0. )

computer -> 3 identical smitches

Xh is in no of switches not warkey at hy 

end of who day.

a) Nence on Parameter spice will be

n= 0,1,2,3...

where i represents his number of days.

Nence parameter operer = { 0, 1, 2, 1 - 2. }

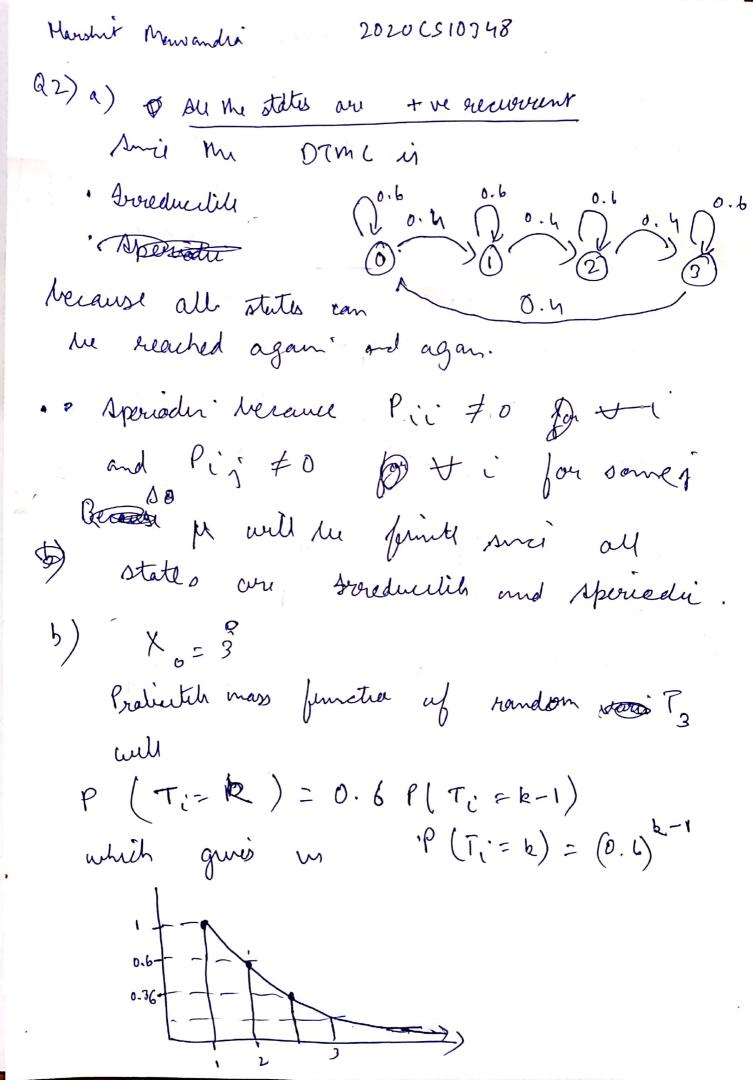
Now stack space is all in possible values that

X Lakes own tim, which is he us of

not worky switchs at the beginning of n in

State Man = {0,1,2,3}

One Sample "Yath of in stachastic pressess 13 5 2 70 4=1 NS = 0) in the of the section is the section with



Worshir Mew andie

20206510748

() T = T, P

$$(\pi A, \pi, \pi_{2}, \pi_{3}) = (\pi_{6}, \pi_{1}, \pi_{2}, \pi_{2}) \begin{vmatrix} 0.6 & 0.4 & 0 & 0 \\ 0 & 0.6 & 0.4 & 0 \\ 0.4 & 0 & 0.6 & 0.4 \\ 0.4 & 0 & 0 & 0.6 \end{vmatrix}$$

$$T_{0} = 1.6 T_{0}$$
  $+ 0.4 T_{3} =$   $0.4 T_{0} = 0.4 T_{1}$ 
 $T_{1} = 0.4 T_{0}$   $+ 0.6 T_{1} =$   $0.4 T_{1} = 0.4 T_{0}$ 
 $T_{2} = 0.4 T_{1}$   $+ 0.6 T_{2} =$   $0.4 T_{3} = 0.4 T_{1}$ 
 $T_{3} = 0.4 T_{2}$   $0.4 T_{3} = 0.4 T_{3} = 0.4 T_{3}$ 

$$= \begin{array}{c} T_{0} = T_{1} = T_{2} = T_{3} = 0 \\ T_{0} + T_{1} + T_{2} + T_{3} = 1 \\ \end{array}$$

$$= \begin{array}{c} T_{0} = T_{1} = T_{1} = T_{2} = T_{3} = 1 \\ \end{array}$$

Scanned with CamScanner