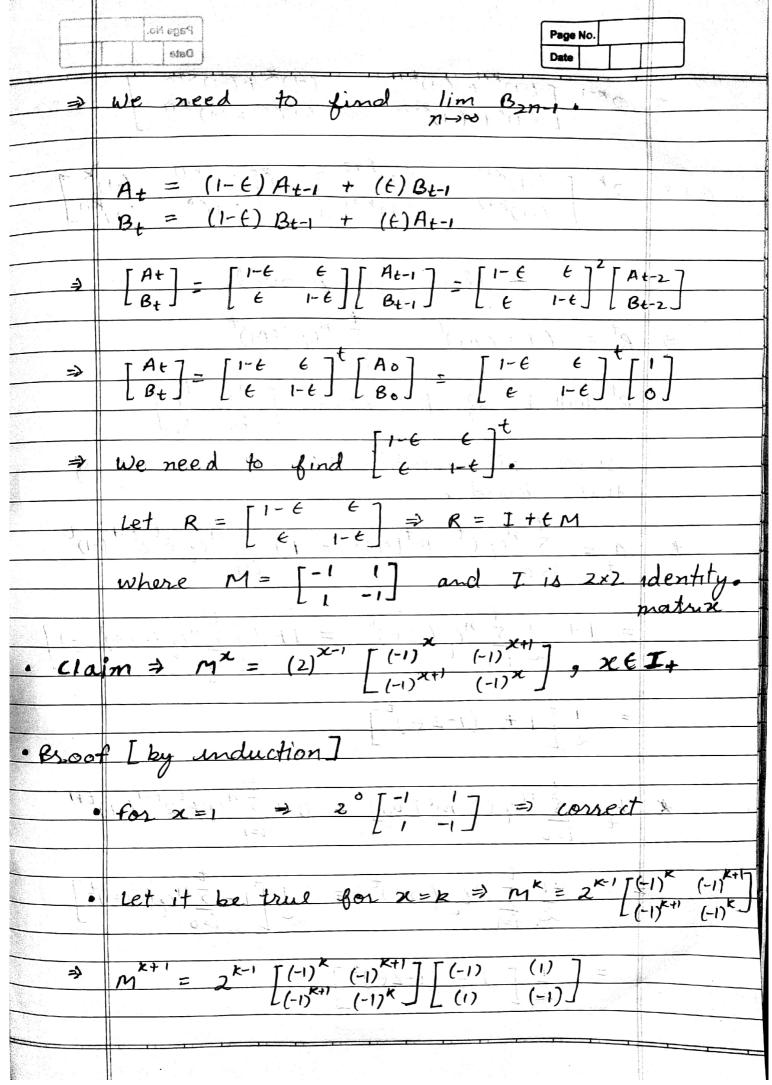


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1.1		PROBLEM T	
	$P(y_1 = \Box) = P(Z_1 = \Box, Z_2)$	=0)	
	= P(q = B, q = B) = P(q = B)	3 2,=B) P(9,=B)	
Y Y	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
	$= (1-\epsilon)(\epsilon) \Rightarrow P(y,=\Box) = (1-\epsilon)(\epsilon)$		
	$B \rightarrow G$ $A \rightarrow G$		
1.2	$P(y=D) = P(2_3=D, 2_4=D)$		
2010 P	$P(9_3=B, 9_4=B) = P(9_4=B 9_3=B)P(9_3=B)$		
	1 1 2 3 5 6 4 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
eall the	$(1-E)P(2_3=B)$		
Margary.	the temporal transmission of the second transmission is		
ALLONS	$P(q_3=B) = \sum_{q_1q_2} P(q_1, q_2, q_3=B)$		
	L1 22		
<u> </u>	=> We have to sum over all.		
	combinations of 9, 92 = 5 AA, AB, BA, BB3		
	0 11.72		
4	$P(9_3=B) = (1-t)(1-t)(t) +$	$(A \rightarrow A \rightarrow A \rightarrow B)$	
ALLO	(1-E) (E) (1-E) +		
tio			
	(E) (1-E) (1-E) (A→B→B→B)		
	⇒ [3 (1-E) (E) + E3](1-E) Ans		
1.3	$P(y_n = \square) = P(Z_{2n-1} = \square, Z_{2n} = \square)$		
	$= \rho(q = B) + \rho(q = B) = \rho(q = B)$		
	0601		
	$= (1-\epsilon) P(9_{2n-1}=B)$		
Notatio	$A_t = \rho(q_t = A)$		
	$B_{t} = P(Q_{t} = B)$		
symlety and the		2. (12 5. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1. 14 1	



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