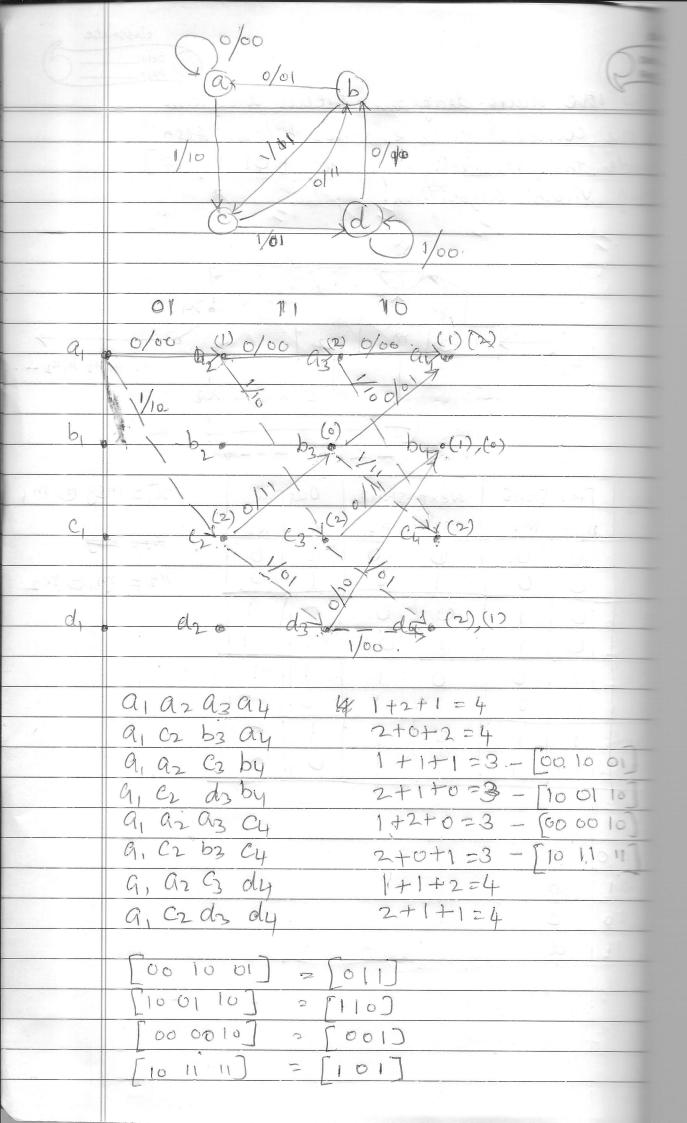
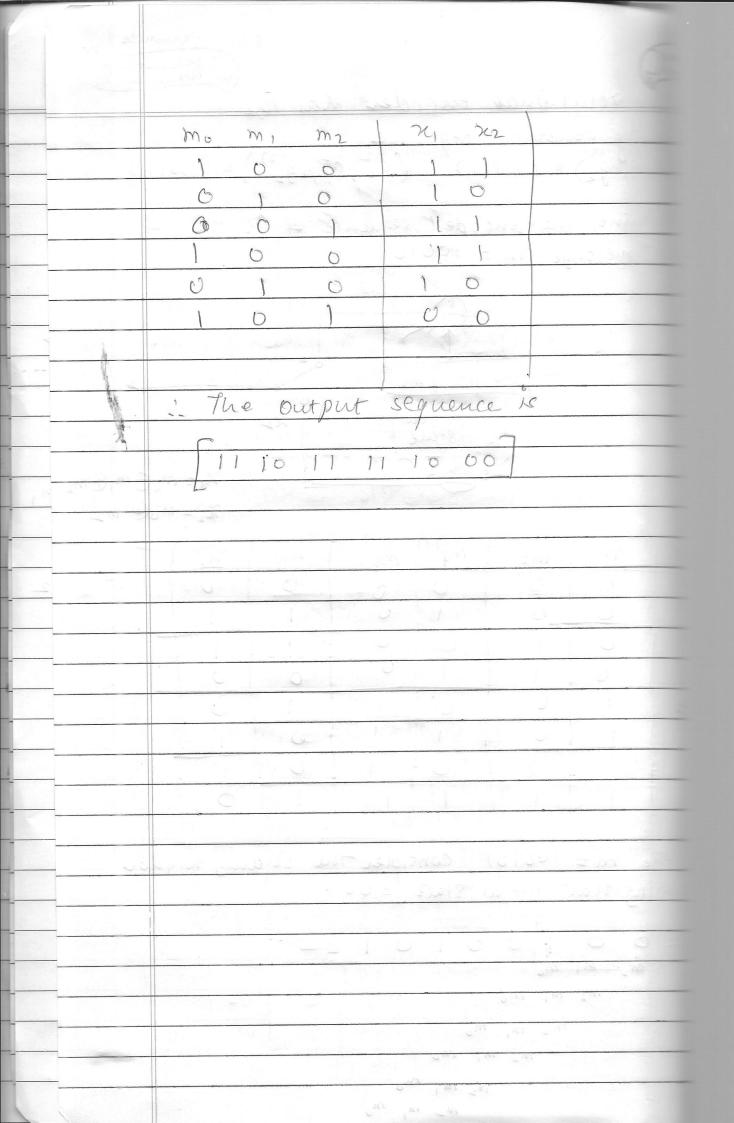
classmate Doan the state diagram, trellis diagram for the comolitional encoder below. Also decode the received sequence [01 11 10] using Viterbi algorithm. 679 msg m2 0 x1x2 x1x2 x1x2 -- -. 2 DG= MS9 @ M, Prev State msa Next state Output m1_ m, 1 m2 m2 22 X2 mag 00 0, 0 ,0 0 0 6 Wz=m, DM2 0 0) 0 0 0 0) () 0 1 -10 0 0 0 0 0 0 00. a b 01 10 C 11

-



							SSMATE
A convolutional encoder has the							
following generator sequences $(90, 9, 92) = (1, 1, 1) (90, 91, 92) = (1, 0, 1)$							
(30, 31, 92) - (30, 31, 92) - (30, 1)							
Determine the encoded sequence of for the							
input message m = 100101							
$\rightarrow m_0 m_1 m_2$							
The second of th							
Present 2c2 8tal E							
X ₁ =m ₀ m ₁ m ₂							
$\frac{1}{\chi_2 - \mu_0 \oplus \mu_2}$							
_			· · ·			- A	100 112
mo	mi	m 2	wa,	mz	1 X1	7/2	
0:	\mathcal{O}	0	0	0	0	0	
	0	_0	1	0	1	1	
6 1	0	1	0	0			
	6	1			0	0	
0 0	\	0	0))	0	
1		0)	0		
0		\	0	1	0		
)		1				0 /	
For the m = 100101, consider the skieling window							
(assuming that initial state = 00)							
LOO1.001011							
C 0 0 1 0 0 1 0 1 6							
M ₂ M ₁ M ₀							
$m_1 m_1 m_0$							
M2 M1 M0							
m ₂ M ₁ m ₀							
$m_{\perp} m_{0}$							





Draw the tree diagram and the trellis dragsen."
for the convolution encoder shown below.

