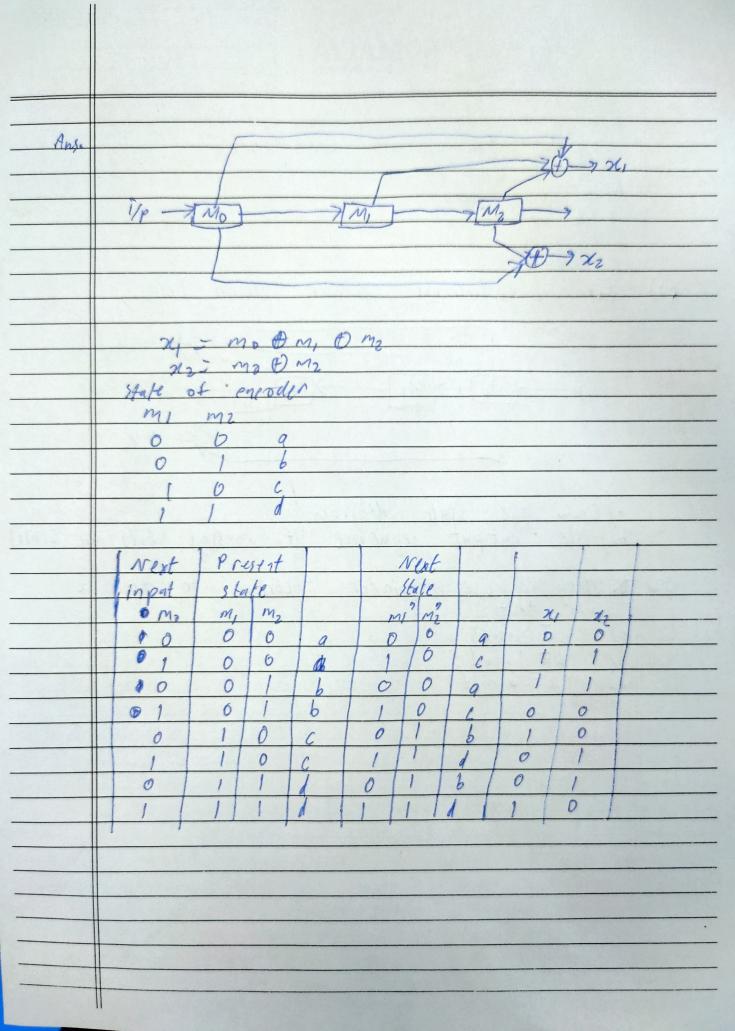


Batch:	2 Roll No.: 1601 642166
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	Information Choosy and Coding (total)
	Name - Arya Marr Batch - A6
Q1)	For convolutional encoder shown below,
	XII - XI
	i/p Mo 7M1 M2 7
	a) Draw the state diagram b) Write output sequence if message bits are Eloli
<u> </u>	Wilsing chinese remainder theorem to find x such that
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$





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2) 11	tate diagram
do	0//1
	10 - 1
	1/100 0/10
	0/01
110/	The You
9	701
13) n	Message Sits = [1011]
(onsi	ides stinding under Cassining milial stuff = 00
	6001011E
	mg my mo
	m_2 m_1 m_2 m_1 m_2
	m2 m/ mo
	mg n1 m2 x1 x2
	0 0 1 1
	1 1 0 0 1
The	ontput requence of [M 10 00 01]
	[M 10 00 01]
The same of the sa	

Ans (\$2)	x= 2 mod3
7 1 7	2= 1 mod 5
	X5 6 mol 7
	Here 3 divisor 3,5,7 are relatively prime,
	gcd (3, 5, 7) = 1
	$a_1 = 2$ $a_2 = 1$ $a_3 = 6$ $a_4 = 3$ $a_2 = 5$ $a_3 = 7$
	m=3 m=5 m=7
	44 7 6
	M= 3x 5x7
	=105
	We i i i i
	We know Mi-M
	M= 105-35
	$M_1 = 105 - 35$
	M2= 105= 21
	M7= 105-15
	7
	X; 7 Multipliative inverse of M;
	HO MINIT MODE
	35x 2/ = 1 mol 3 rut y=1
	(35x1) +7, 3=2
	rut 21:2
	(35x2) \$3-1
	$x_1 = 2$



Batch:	AZ ROII No.: 160 1044063
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Strifacly		
21x 22 = 1 mod 5		
Put no-1		
C21 × 1)7. 5=1		
212 = 1		
Similarly M3 x x3 = 1 mod m3 150 x3 = 1 mod 7		
M3 x X3 = 1 mod m3		
the state of the s	788	
Fut 23=1		
95×1) 7.7=1		
X3 = 1		
100 4 11 1		
ve trave that		
2 = 35×2×2 + 21×1×1 + 15×1×16 = 140 + 21 +90		
Thus value of of 251		
(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Verifying		
2517,7=2		
25/ 7.50		
251 1.7 - 6		Commence of the commence of th
Thus calisties all necessary	condition	
		•
	•	
	•	
	•	
	•	