	Care m	
	24TE / /	
1)	M = {0,, 4}	
	K ← {0,,5}	
	Ency(m) = (4+m) mod 5	
	Dec k (o - k) mod 5	
	P/c lm $rac{1}{2}$ O/c c	
	Pr(CzclMzm) z Pr(knc,(m) zc)	
	2 & Pr (Fnc (m) = C k = L) Pr (K = k)	
	= 1 \(\xi \) Px \(\xi \nc_{\pi} \) = C \(\xi \) \\ 6 \(\xi \) \(\xi \)	
	for perfect secraly	
7	Pr(C2c/M2mo) = Pr(C2c/M2m1) +C,M,M,	
	asider the case when c = 3, mo = 0, m, = 5.	
1	: Pr (C2 x M2 mo) 2 1 (04040414040)	
1	· 1/6 — ①	
	Pr ((20 M2m1) 2 1 (1+0+0+0+0+1)	
	· 1/3 — (1)	
	- 73	
	as 0 = 0 3 encryption scheme 15 not perlectly secure.	
	not perfectly secure.	
A CLUB		
State designation is made in a set of the second		
		Section 1



	/ DATE / /
2)	No, this is not a parkently searche
	encryption scheme as here IKI X [M].
P-00 (2 :	Let Ma) = Em: Dec,(c) > m K EK }
	Dec (c) 7 m' for particular c & + k
	Pr[M=mi (2c] = 0 + Pr[M=mi] CASSUMING CONSIDER ONLY M)
Counter.	M = E0, 131 (Assume Unizromo dist over it). m — M.
	let m be any l bit string with even. number or one's & c be a l bit.
	ones. (assuming m + c)
	Pr [Mam C=c] = 0 + P[Mam] = 1/21
	same is the case when m has odd -
	-> encryption scheme not perfectly secure.
	-

