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	ANISH SODHAN NAIR	Date / / 🛦
	18041 Inhoduction	Page RANKA
	1 Control of	
	to Cryptography	
	0 . (
	Puiz 6	
	S= {a, b, c, d, e } p[a] = 0.35	
	p[b]=0.25	
	p [c] = 0.18	
	p [d]=0.12	
	p[e]=0.10	
	e:0.1 d:0.12 c:0.18 b:0.25	a:0.35
	01/	1/
		/
	0.22	0.6
	0.4	
-) I	
	0	
	\	
		ř.
2.	x a b c d e	
	Code 11 10 00 011 010	

3. L(X)= 0.35x2+0.25x2+0.18x2

4. no & ln (IKI)
R, ln (IPI)

26 has 12 prime relatives. ... No. of pursible keys = 312

Plainfort possibles = 26

no = ln 3/2 RLIn 26

R_ = 1 - H log= 1191

H=1.25 1P1=26

· '. R = 0.75

.. h = ln 312 0.75 (ln 26)

= 2.35

For the English language.

+0.12×3+0.1×3

Page

1K) = 265 1P1 = 265

 $h_0 = ln(26^5) = 1 = 1.33$

= 36×1 = 8 7. There are 312 possible keys in hotal in the Affine Cipher and in this case, each key occurs with a probability of _ I then the cry protystem achieves perpet 312 secrety.

no = In (26)6

6. For m = 6 118 = 2636 118 = 266

5. For m =5