

Sub Cipher Cooser Ciphen: Invalues suplacing each letter of the alphabet eight the letter standing 3 places further down the alphable meel => PHHW => m+3 No of keys possible available kegs = 25 Monoalphabetic Ciphen Replace each deller ewith one of 26 letters. So one letter can be encappled with 26 letters! No of keys = 261" & 4×1026 PLAY FAIR: Best known multiple letter encaypton ciphen- Taeatis Di-grams in plaintext
us single linds and franslatis those
urnit into appearent di-grams.
Posseble keys 25! Vigeneze Cipher: Polyalphabetic cipher - best In this scheme the set of related mono alphabelor Sub-sules consests of 26 Caeser applies with shifts of O through 25 Each upher is denoted by a key letter which is the upher don't letter that Substitutes for plan text lottera active after attempts to after such key De Com and hallo PT WEA Ciphus = ) 0=3 W=22 (phee => 22+3=25=Z E=4 &=4 Ciphs = 4+4=8=91 C=2 A=0 (p'=0+2=06

Brute Force : Involves taying every possible keys.

until an intelligible translation of

ciphon text into plain list so obotained Cayptanalyses Techniques used for de-cipherus a message with out any knowleds of en-crypting Attack relies on nation of algorithm and some knowledge of general characteristics of plaintext MONO one letteris napped to one letter mapped to unique alphabet mapped to a upher tool Caesen Monode phelitic playfail, Vigenese. tronder Transposition A sub technique isone un which IT letters are suplexed with other letting charged with one another

ONE TIME PAD Use a sandom key that a as long as the message so that the key need not be superated Key is used to encryt and decrypt a single message of them it is discarded. Each new message requires a new key of the same lingth as the new message Scheme is seny unbreakable. -> produces grandom output that bears Because the appearant contains no 6 information whatsoever about the plain text there a simply no way to break code. Defficulties-There is a practical problem of making large quantities of sandom key Any heavily resid system might require millions of vandoms characteristics on 1 regular basis. Mammoth key key distribution problem message ungth - key length (6-1)