Encoding and Decoding Crypto graphy :-The study of coding a decoding a newsay 15 called as crypto graphy For the language of crystography, the resease Codes are called as Ciphers & code ressays are called as Giphertents. Enciphering (Encoliny): - The process cos Converting Plain text by coding is called as a enciphering of trom the ciphen to not is called as a deciphering (decoding) A selected matrin 15 called as a encoding reptoin & its inverse is Called as a decoding matrin. Encoding Natoin is called as a f-ration Crentral Method: Si: To replace the woods oblique Letters by 3: To decode the mersage 4: - To replace nos by words/letters. A goes to 1 --> goes to 26 B goes to 2

I the space het 2 words goes to *(27) A, B, C, -- , Z, E, * spory} Using a suitable 2x2 matrin encode a decode the message WEGO WEGO 235715 To oppose the words/ letters by res from I We get the Hongfor Nation we ensite trip in a sequence of 2x 1 ration To encode the message. We now prengultiply lock by the above column vectors by the encoding matrix 237- 28 23 Colorns of the above matrin gives the encoded message. The above message is transmitted justed in to pur following linear four 28 5 22 15

to decode the ressage in a column patrin as The above matrix is then prepruttiplied by one inverse of the cooling ration [] [28 22] = [23 7] [S 15] [S 15] Sy perfore not by letters. The cols of 235 7 15 Inher it is Then it is transformed into letters we get 23 5 7 15 WEGO This is the original risg. 98 Osing a suitable 2x2 encede a decode the ressage NOWX STUDY' In the poerious eg. We did not consider the space bet 2 words. NOW Bot in fry's ear we are considering the space bet 2 words 9 assign the no. is 27.

