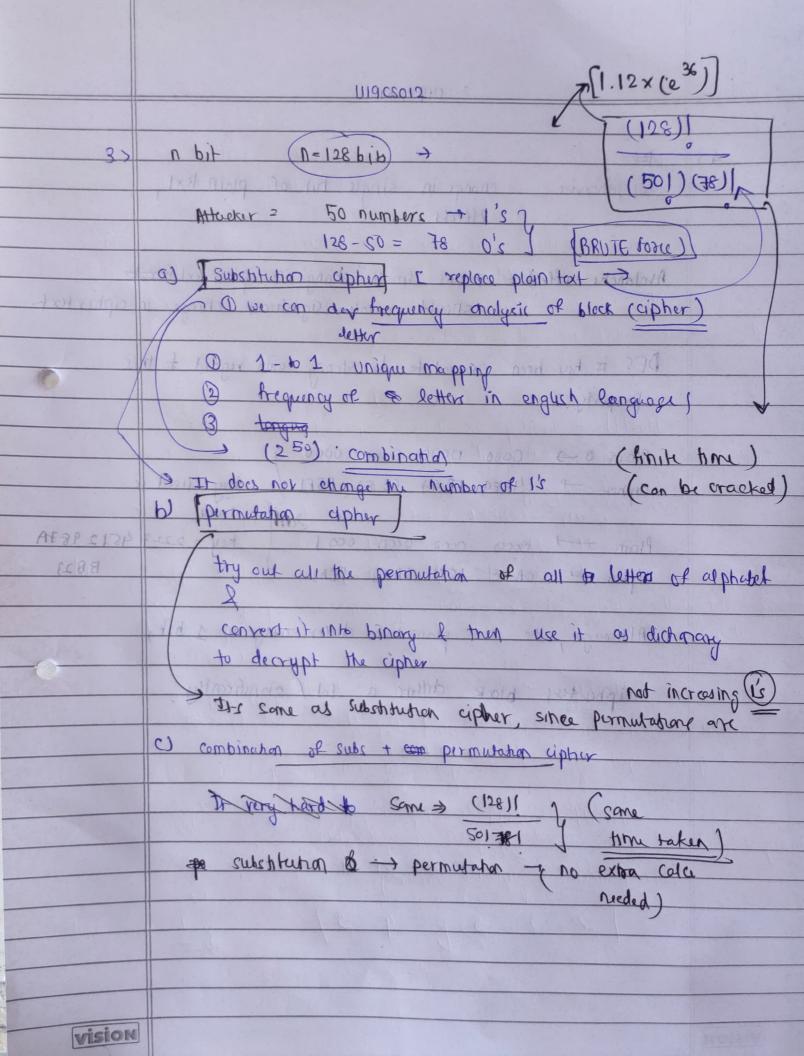
VISION

(5360 (PYTO 1023 PHU) Y MAKI 93 JUNE MO 2. > One of time of pad + anna asury acoust small abe det ghijk en nopgestuv wxyz 0123456789101112 1314 1516 1+1817 20 7 22 2424 1 Student Gods in Frenchis T Mederich Input a) message = 14 paynow" Hon I habite justo ind they! I'd 2314505 toning & home pay sono ow pay noω ⇒ 15 0 24 13 14 22 112111 - 112 numbers broom allowed 2 model 1 € landing is volokey and old old tortal and 3 whiles 4 5: 0 (Add & do mod 26) (17 x. 26) (3x.26) (xx.26) (19x.26) 17 3 25 17 19 22 Ciphertext WOIF-8 Hold RANGE W Ans s graph on morthy unproposed the giving b) ciphertext & d 2 & t w (fig.) 17 3 25 17 19 22 (2) Data Radies to National security - HIGH destricts of the the data of the training of the land of t 1/20/2010) tossis orgino 19d 13 north 222ml 726 dou (do subtraction) (3-14/x260 (2+13)x26) 0x26 (17-13)X2C (27-19)X2C (1946)XXX tougus! le p g e f a

Vision



(3) ×21.1] U19 CSO12 (did 301=1) fed n effects and mun od = manufa THE TENE Ardanche effect - means small change in plaintextions should create significant change in ciphertext DES is has been proved to be strong with regard to this property man in what so so wome Plain 0 -> 0000 0000 0000 0000) Cipher - 4789 FD47 (E 82 ASFI Key used is Plain - 0000 0000 0000 0001 key = 2223 4512987A Cipker OA4E DSCI SAG3 FEA3 BB23 Although, the two plain text differ only in 1 bit, ridge att tapper to cipher 2) 2100 DA tocipher text block differ a let significantly. eno) 1 11891) come at both from Solate I have taken The substitution of the permittent of the extracted Chahain VISION

5) Double DES for Bruk force & Meet in the middle 1) Bruke force > Uses DES twice Security = 2x 256 = [257] combination of key's to be security Ora < 1013) 64 bir Platt text P > ECKI, PJ ST bib DES cipher E(K2; E(K1,P)) = Cipher (64 bit middle text) temporary ciphertext oro Ke) DES apher cipher text (2) Meet in the middle. This attack involves encryption from lend & decryption from other end and " matching the results in middle" & hence the name Decrypt (K2, C) = Encrypt (K1, P) o (k, k2) is key pair used (i) encrypt "P" for all 256 possible values of ki & Store resultin table & sort it (ii) Now decrypt "?" using all 256 possible values of k2. As a report, decryption, check against table for moth, citis when there is moteh we pair the key & try for cell possible pair of keys VISION