CS413-Information Security

Fall 2020

## Assignment No. 03

Due Date: Dec 31, 2020

1. **Hill Cipher**

**A.1.** Encrypt the message "meet me at the usual place at ten rather than eight oclock" using the Hill cipher with the key,



Show your calculations and the result.

**A.2.** Show the calculations for the corresponding decryption of the ciphertext, obtained in the above question, to recover the original plaintext.

**A.3.** Decipher the message **YITJP GWJOW FAQTQ XCSMA ETSQU SQAPU SQGKCPQTYJ** using the Hill cipher with the inverse key,



Show your calculations and the result.

**A.4.** Decipher the message **MWALO LIAIW WTGBH JNTAK QZJKA ADAWS SKQKUAYARN CSODN IIAES OQKJY B** using the Hill cipher with the inverse key



Show your calculations and the result.