ooxWord://word/media/image2.jpeg**Quiz1**

**Department: Student ID: Name:**

1. Please write a program to find out the frequencies of letters in the ciphertext down below.

2. Use these plaintext frequency count information as a reference to break this encrypted messages.

3. Assume C is Ciphertext, P is Plaintext. Can you find out a particular relationship in

between C and P?

4. Suppose f(x) = ax + b (mod 26) where x is plaintext, please solve the value of a and b.

5. What is the size of key space in the 26 letter cipher? Remember, in this quiz, the key of this substitution cipher is defined as a unique replacement of each letter with another one. e.g., A->D, B->M

Ciphertext:

K YZWLNKXKJWGN QUGN ETNMX

MPLMZOMXYM K TMMJOXA XEN

TKZ ZMQEBMF TZEQ KJKZQ EX

KXKJWDOXA KXF MPLJEZM

NHM TJEEF ET XMI CXEIJMFAM IHOYH

MKYH WMKZ RZOXAG IONH ON

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