

Cryptography: Homework 1

(Deadline: October 11, 2018)

1. (10 points) Suppose that the following ciphertext is generated using the shift cipher.

OVDTHUFWZZPISLRLFZHYLAOLYL

Try to find the plaintext and the secret key.

2. (20 points) Suppose that the following ciphertext is generated using the substitution cipher.

JGRMQOYGHMVBJWRWQFPWHGFFDQGFPFZRKBEEBJIZQQOCIBZKLFAFGQVFZFWWEOGWOPFGFHWOLPHLRL
OLFDMFGQWBLWBWQOLKFWBYLBLYLFSFLJGRMQBOLWJVFPFWQVHQWFFPQOQVFPQOCFPOGFWFJIGFQVHL
HLROQVFGWJVFPFOLFHGQVQVFILEOGQILHQFQGIQVVOVSFAFGBWQVHQWIJVVJVFPPWHGFIWIHZZRQGBA
BHZQOCGFHX

Try to find the plaintext and the secret key.