**Computer Security – IV1013**

**Quiz 1**

1, Compute the multiplicative inverse of 5 in **Z**21.

17

2, Eve has an antenna that can pick up Alice’s encrypted cell phone conversations. What type of attack is Eve employing?

chosen plain-text ?

3, What is 716 mod 11?

4

4,

5, Why can’t Bob use the pair (1,*n*) as an RSA public key, even if *n*=*pq*, for two large primes, *p* and *q*?

1 doesn’t encrypt

6,

7, Assume that the Hill cipher matrix *K* is

CAT = 2 0 19 Cipher = 78 433 149

8, What is 7120 mod 143?

1

9,

Sub for 12 = 7

Sub for 7 = 11

Sub for 2 = 15