QUIZ 1, Crypto

am	ie: NetID: Grade:
1.	In the three security properties, crypto protects and, but not
2.	There are two types of attackers we consider in crypto: the ones that can eavesdrop, known as attacker, and the ones who have full control of the channel, known as attack.
3.	covers the existence of the information while crypto hide
	the meaning of the message.
4.	To find the key length of Vignere cipher, we use test by starting finding
	repeating patterns of length at least
5.	The adversarial model for ciphers include attack,
	attack, attack and
	attack.
	In the binary version of One-time Pad, we use (bit) operation to encrypt/decrypt
	To achieve perfect secrecy, one key can be used for time(s) in OTP.
	Perfect secrecy implies that key-length message length.
9.	The idea of stream cipher is to replace the random key in TOP with
10.	. A cryptographically secure PRNG satisfies the test.
11.	. The same plaintext always gets the same ciphertexts. [True False]
12.	. We propose two methods to formalize computational security:
	and
13.	. The encryption modes for black ciphers:,
	and
14.	. A MAC (message authentication code) scheme is a
	An RSA algorithm gives public key (e, n) and private key d. To encrypt, we should use and to decrypt, we use To generate a signature, we use
	and to verify the signature, we use
16.	. In IND-CPA security, IND stands for And digital signature
	provides authentication, data integrity and
	. Diffie-Hellman protocol can be used for
18.	. In Kerberos, if there are N parties and they are allowed to talk to each other,
	keys are needed.