TRUE/FALSE QUESTIONS:

- T F 1. Symmetric encryption is used primarily to provide confidentiality.
- T F 2. Two of the most important applications of public-key encryption are digital signatures and key management.
- T F 3. Cryptanalytic attacks try every possible key on a piece of ciphertext until an intelligible translation into plaintext is obtained.
- T F 4. The secret key is input to the encryption algorithm.
- T F 5. Triple DES takes a plaintext block of 64 bits and a key of 56 bits to produce a ciphertext block of 64 bits.
- T F 6. Modes of operation are the alternative techniques that have been ASSI genipped in the sequences of data.
- T F 7. The advantage of a stream cipher is that you can reuse keys. **Proof** 1 power 1 power 1 power 2 power 2
- T F 8. A message authentication code is a small block of data generated by a secret key and appended to a message.
- T F 9. Like the MAC, a hash function also takes a secret key as input.
- T F 10. The strength of a hash function against brute-force attacks depends solely on the length of the hash code produced by the algorithm.
- T F 11. Public-key cryptography is asymmetric.
- T F 12. Public-key algorithms are based on simple operations on bit patterns.
- T F 13. The purpose of the DSS algorithm is to enable two users to securely reach agreement about a shared secret that can be used as a secret key for subsequent symmetric encryption of messages.
- T F 14. An important element in many computer security services and applications is the use of cryptographic algorithms.
- T F 15. Some form of protocol is needed for public-key distribution.

MULTIPLE CHOICE QUESTIONS:

1. The ori	ginal message or data that is fo	ed into the algorithm is		
	A. encryption algorithm	B. secret key		
	C. decryption algorithm	D. plaintext		
2. The	is the encryption alg	orithm run in roverse		
2. THE	2. The is the encryption algorithm run in reverse.			
	A. decryption algorithm	B. plaintext		
	C. ciphertext	D. encryption algorithm		
3	is the scrambled message	produced as output.		
	A. Plaintext	B. Ciphertext		
A. Plaintext Assignment Project Law an Help 4. On average, https of alposity concerts the theorem der to achieve success with a brute-force attack. A. one-fourth WeChat powcoder C. two-thirds B. Ciphertext B. Ciphertext Help 4. On average, https of alposity concerts the theorem derived achieve success with a brute-force attack. A. one-fourth WeChat powcoder D. three-fourths				
DES, trij	ple DES, and the			
	A. SHA	B. RSA		
	C. AES	D. DSS		
6. If the only form of attack that could be made on an encryption algorithm is brute-force, then the way to counter such attacks would be to				
	A. use longer keys	B. use shorter keys		
	C. use more keys	D. use less keys		

Asymmetric ci Kindly read ch	ryptography. napter 2 first (Computer Security:	Principles and Practice)
	is a procedure that allows messages are authentic.	communicating parties to verify that received
	A. Cryptanalysis	B. Decryption
	C. Message authentication	D. Collision resistance
	oose of a is to pro	duce a "fingerprint" of a file, message, or
	A. secret key	B. digital signature
	C. keystream	D. hash function
	is a block cipher in which 0 and <i>n</i> -1 for some <i>n</i> .	the plaintext and ciphertext are integers
As	ssignment Pro	ojeet Exam Help D. AES
10. A for a mes	ssage and then encrypting the l	vecoder.com ecure hash function to generate a hash value hash code with a private key. nat powceder
	C. one way hash function	D. secret key
11. Transm	nitted data stored locally are re	ferred to as
	A. ciphertext	B. DES
	C. data at rest	D. ECC
	signatures and key manageme encryption.	ent are the two most important applications of
	A. private-key	B. public-key
	C. preimage resistant	D. advanced
	is to try every possible translation into plaintext is	le key on a piece of ciphertext until an obtained.

	A. mode of operation	tion B.	hash function
	C. cryptanalysis	D.	brute-force attack
14. (<u> </u>	e with the plaintext str he pseudorandom bit ;	ream using the XOR operation, a generator.
	A. keystream	В.	digital signature
	C. secure hash	D.	message authentication code
	A protects again other party to sign.	st an attack in which o	one party generates a message for
	A. data authentica	ator B.	strong hash function
	C. weak hash fund Assignmen	t Project	digital signature Exam Help
SHOF	RT ANSWER QUESTION		
1.	Also referrattes sigle confidentiality for transmi		TvessOeth ique for providing
2.	There are two general troc cryptanalytic attacks and	Foacties in attacking a	symmetric description scheme:
3.	The algorithment algorit	n takes the ciphertext	and the secret key and produces
4.	A attack exp deduce a specific plaintex		s of the algorithm to attempt to being used.
5.	A processes block of ciphertext of equ		fixed-size blocks and produces a ext block.
6.	A processes element at a time.	the input elements cor	ntinuously, producing output one
7.	Public-key encryption was	s first publicly propos	ed by in 1976.
8.	The two criteria used to voindependence and	•	e of numbers is random are

	read chapter 2 first (Computer Security: Principles and Practice)
9.	A is a hardware device that sits between servers and storage systems and encrypts all data going from the server to the storage system and decrypts data going in the opposite direction.
10.	In July 1998 the announced that it had broken a DES encryption using a special purpose "DES cracker" machine.
11.	The simplest approach to multiple block encryption is known as $_$ mode, in which plaintext is handled b bits at a time and each block of plaintext is encrypted using the same key.
12.	A stream is one that is unpredictable without knowledge of the input key and which has an apparently random character.
13.	The is a pair of keys that have been selected so that if one is used fo encryption, the other is used for decryption.
	is provided by means of a co-processor board embedded in the tape drive and tape library hardware roject Exam Help
15.	The purpose of the algorithm is to enable two users to securely reach agreement about a shared secret that can be used as a secret key for subsequent symmetric endryption of messages r.com

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