TRUE/FALSE QUESTIONS:

- T F 1. Symmetric encryption is also referred to as secret-key or single-key encryption.
- T F 2. Plaintext is the scrambled message produced as output.
- T F 3. If both sender and receiver use the same key the system is referred to as asymmetric.
- T F 4. The ciphertext-only attack is the easiest to defend against.
- T F 5. A brute-force approach involves trying every possible key until an intelligible translation of the ciphertext into plaintext is obtained.
- T F 6. AES uses a Feistel structure.
- T F 7. Stream ciphers are far more common than block ciphers.
- T SSI SINGENT 4 Trainer to Sen out a definer to using the same key" is a description of the CBC mode of operation.
- T F 9. It is possible to/convert any block cipher into a stream cipher by using the cipher leedback (CMS) model C I. C O III
- T F 10. One desirable property of a stream cipher is that the ciphertext be of the height that the ciphertext becomes the ciphertext because the ciphertext because
- T F 11. In using encryption, we need to decide what to encrypt and where the encryption gear should be located.
- T F 12. One disadvantage of the link encryption approach is that the message must be decrypted each time it enters a frame switch.
- T F 13. "The plaintext is 64 bits in length and the key is 56 bits in length; longer plaintext amounts are processed in 64-bit blocks" is a description of the DES algorithm.
- T F 14. The National Bureau of Standards is now the National Institute of Standards and Technology.
- T F 15. Key distribution can be achieved for two parties A and B by a third party selecting the key and physically delivering it to A and B.

MULTIPLE CHOICE QUESTIONS:

1. ______ is the original message or data that is fed into the algorithm as input.

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	A. Plaintext	B. Encryption algorithm
	C. Decryption algorithm	D. Ciphertext
2. The exact son the		ns performed by the algorithm depend
	A. ciphertext	B. decryption algorithm
	C. secret key	D. encryption algorithm
3. The	is the encryption algorith	nm run in reverse.
	A. decryption algorithm	B. ciphertext
	C. plaintext	D. secret key
4. If the analy chosen by the AS	analyst, then a attack signment Pro	tem to insert into the system a message ck is possible. iect Exam Help D. chosen-plaintext
	C. chosen ciphertext https://pow.widely used encryption scheme al Bureau of Standards. A. Add WeCh	e is based on the adopted in 1977
	C. CES	D. DES
		ned by NIST that are intended to cover syption for which a block cipher could be
	A. three	B. five
	C. seven	D. nine
7. For stream mode.	-oriented transmission over no	isy channel you would typically use
	A. ECB	B. CTR
	C. OFB	D. CBC

-	20 in Computer Security: Pal-purpose block-oriented trans	rinciples and Practice mission you would typically use	
	A. CBC	B. CTR	
	C. CFB	D. OFB	
9. For general mode.	l-purpose stream-oriented tran	smission you would typically use	
	A. CTR	B. CFB	
	C. ECB	D. CBC	
	node is typically used for a genor or high-speed requirements.	neral-purpose block-oriented transmission	
	A. ECB	B. OFB	
11. As	C. CFB Signment Pro Sa term that refers to the age data without allowing other	D. CTR iect Exam Help wheans of delivering a key to two parties that ers to see the key.	
	A. https://pow		
12. A keys.	C. Key distribution technique D. Ciphertext key Add WeChat powcoder		
	A. permanent key	B. session key	
	C. distribution key	D. all of the above	
13. Thebehalf of users		end encryption and obtains session keys on	
	A. PKM	B. RCM	
	C. SSM	D. CCM	
14. Public-key	y encryption was developed in	the late	
	A. 1950s	B. 1970s	
	C. 1960s	D. 1980s	
15. Cryptogra	aphic systems are generically c	classified by	

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- A. the type of operations used for transforming plaintext to ciphertext
- B. the number of keys used
- C. the way in which the plaintext is processed
- D. all of the above

SHORT ANSWER QUESTIONS:

1.	A symmetric encryption scheme has five ingredients: plaintext, encryption algorithm, ciphertext, decryption algorithm and
2.	is the process of attempting to discover the plaintext or key.
3.	cipher processes the input one block of elements at a time, producing the state of the processes of the input one block of elements at a time, producing the state of the processes of the input one block of elements at a time, producing the state of the processes of the input one block of elements at a time, producing the state of the processes of the input one block of elements at a time, producing the state of the processes of the input one block of elements at a time, producing the processes of the input one block of elements at a time, producing the processes of the input one block of elements at a time, producing the processes of the processes of the processes of the input one block of elements at a time, producing the processes of the proc
4.	A cipher processes the input elements continuously, producing output one element at a time as /it/goes along oder.com
5.	An encryption scheme is if the cost of breaking the cipher exceeds the value of the encrypted information and/or the time required to break the cipher exceeds the information OWCOGET
6.	The was issued as a federal information-processing standard and is intended to replace DES and 3DES with an algorithm that is more secure and efficient.
7.	was designed in 1987 by Ron Rivest and is a variable key-size stream cipher with byte-oriented operations.
8.	"The input to the encryption algorithm is the XOR of the next 64 bits of plaintext and the preceding 64 bits of ciphertext" is a description of the mode of operation.
9.	Unlike ECB and CBC modes, mode requires only the implementation of the encryption algorithm and not the decryption algorithm.
10.	The most powerful, and most common, approach to countering the threats to network security is
	With encryption the encryption process is carried out at the two end systems.

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12. With encryption each vulnerable communications link is equipped on
both ends with an encryption device.
13. For symmetric encryption to work the two parties to an exchange must share the same, which must be protected from access by others.
14. All encryption algorithms are based on two general principles: substitution and
15. The three most important symmetric block ciphers are: 3DES, AES, and

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