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All the Multiple Choice Question and Answer (MCQs) have been compiled from the books of Data Communication and Networking by the well known author behrouz A forouzan.

This Data Communication and Networking – Cryptography multiple choice Questions and Answers (MCQ) PDF covers the below lists of topics.

1. Cryptography Multiple Choice Question and Answer.

Practice now to sharpen your concept.

1. to		lysis	S
	D. neither (a)	nor (b)	
2.	TheA. ciphertext B. plaintext C. secret-text D. none of the		

3. The ______ is the message after transformation

A. ciphertext

B. plaintext

C. secret-text

D. none of the above

	A(n) algorithm transforms plaintext to ciphertext A. encryption B. decryption C. either (a) or (b) D. neither (a) nor (b)
	A(n) algorithm transforms ciphertext to plaintext A. encryption B. decryption C. either (a) or (b) D. neither (a) nor (b)
alg	A combination of an encryption algorithm and a decryption gorithm is called a A. cipher B. secret C. key D. none of the above
op	The is a number or a set of numbers on which the cipher erates A. cipher B. secret C. key D. none of the above
an	In a(n) cipher, the same key is used by both the sender d receiver. A. symmetric-key

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- B. asymmetric-key
- C. either (a) or (b)
- D. neither (a) nor (b)
- **9.** In a(n) _____, the key is called the secret key.
 - A. symmetric-key
 - B. asymmetric-key
 - C. either (a) or (b)
 - D. neither (a) nor (b)
- **10**. In a(n) _____ cipher, a pair of keys is used.
 - A. symmetric-key
 - B. asymmetric-key
 - C. either (a) or (b)
 - D. neither (a) nor (b)

Answer key for MCQ SET- 1	
Q-1	Correct Answer : Cryptography
Q-2	Correct Answer :plaintext
Q-3	Correct Answer :ciphertext
Q-4	Correct Answer :encryption
Q-5	Correct Answer :decryption
Q-6	Correct Answer :cipher
Q-7	Correct Answer :key
Q-8	Correct Answer :symmetric-key
Q-9	Correct Answer :symmetric-key
Q-10	Correct Answer :asymmetric-key

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Cryptography multiple choice questions and answers MCQ Set-2

1.	In an asymmetric-key cipher, the sender uses the key. A. private B. public C. either (a) or (b)
2.	D. neither (a) nor (b) In an asymmetric-key cipher, the receiver uses the key A. private B. public C. either (a) or (b) D. neither (a) nor (b)
	A cipher replaces one character with another naracter. A. substitution B. transposition C. either (a) or (b) D. neither (a) nor (b)
	ciphers can be categorized into two broad categories: onoalphabetic and polyalphabetic. A. Substitution B. Transposition C. either (a) or (b) D. neither (a) nor (b)

5 .	. The cip	her is the simplest monoalphabetic cipher. It uses
m		with a modulus of 26.
	A. transposition	
	B. additive C. shift	
	D. none of the al	oove
6.	. The Caesar ciph A. transposition	er is acipher that has a key of 3.
	B. additive	
	C. shift	
	D. none of the al	oove
		pher reorders the plaintext characters to create a
cij	phertext.	
	A. substitution B. transposition	
	C. either (a) or (b)	o)
	D. neither (a) no	•
8.	. A(n) is a	keyless substitution cipher with N inputs and M
	-	formula to define the relationship between the
in	put stream and the A. S-box	ie output stream
	B. P-box	
	C. T-box	
	D. none of the al	oove

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- **9.** A(n) ______ is a keyless transposition cipher with N inputs and M outputs that uses a table to define the relationship between the input stream and the output stream
 - A. S-box
 - B. P-box
 - C. T-box
 - D. none of the above
- **10.** A modern cipher is usually a complex ____cipher made of a combination of different simple ciphers.
 - A. round
 - B. circle
 - C. square
 - D. none of the above

Answer key for MCQ SET- 2	
Q-1	Correct Answer :public
Q-2	Correct Answer :private
Q-3	Correct Answer :substitution
Q-4	Correct Answer :Substitution
Q-5	Correct Answer :shift
Q-6	Correct Answer :shift
Q-7	Correct Answer :transposition
Q-8	Correct Answer :S-box
Q-9	Correct Answer :P-box
Q-10	Correct Answer :round

Cryptography multiple choice questions and answers MCQ Set-3



A. symmetric-key B. asymmetric-key C. either (a) or (b) D. neither (a) nor (b)	_ method adopted by the U.S. gov	ernment.
2. DES has an initial an	nd final permutation block and	
rounds		
A. 14		
B. 15		
C. 16		
D. none of the above		
3. The DES function ha	as components	
A. 2		
B. 3 C. 4		
D.5		
• •	rator to generate sixteen	round keys
A. 32-bit		
B. 48-bit C. 54-bit		
D. 42-bit		
5 _ 5		
	lesigned to increase the size of the	DES key
A. Double		
B. Triple		
C. Quadruple		

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D. none of the above

6.	is a round cipher based on the Rijndael algorithm that
us	es a 128-bit block of data
	A. AEE
	B. AED
	C.AER
	D. AES
7.	AES has different configurations
	A. two
	B. three
	C. four
	D. five
8.	ECB and CBC are ciphers
	A. block
	B. stream
	C. field
	D. none of the above
9.	One commonly used public-key cryptography method is the
	algorithm
	A. RSS
	B. RAS
	C.RSA
	D. RAA

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10. The _____ method provides a one-time session key for two parties

- A. Diffie-Hellman
- B. RSA
- C.DES
- D.AES

Answer key for MCQ SET- 3	
Q-1	Correct Answer :symmetric-key
Q-2	Correct Answer :16
Q-3	Correct Answer :4
Q-4	Correct Answer :48-bit
Q-5	Correct Answer :Triple
Q-6	Correct Answer :AES
Q-7	Correct Answer :three
Q-8	Correct Answer :block
Q-9	Correct Answer :RSA
Q-10	Correct Answer :Diffie-Hellman