

COMPUTER SECURITY

Question Bank

Helping Others Have Special taste

Questions

- 1) performs various substitutions and transformations on the plaintext.
 - a) Decryption algorithm
 - b) Encryption algorithm
 - c) Secret key
 - d) Public key
- 2) Is also an input to the encryption algorithm?
 - a) Secret key
 - b) public key
 - c) Private key
 - d) None
- 3) The scrambled message produced as output.
 - a) Plaintext
 - b) Ciphertext
 - c) Secret key
 - d) None
- 4) It takes the ciphertext and the key to produce the original text.
 - a) Decryption algorithm
 - b) Encryption algorithm
 - c) Secret key
 - d) Public key
- 5) Are algorithms for cryptography that use the same cryptographic keys for both encryption of plaintext and decryption of ciphertext.
 - a) Symmetric-key algorithms
 - b) Asymmetric-key algorithms
 - c) A&B
 - d) None

Lecture-4

6) From the following sentences what is important characteristics that enable us to use a brute force cryptanalysis?

- 1 – There are only 25 keys to try.
- 2 – The encryption and decryption algorithm are known.
- 3 – The language of the ciphertext is known and easily recognizable.
- 4 - The language of the **plaintext** is known and easily recognizable.

Chose the correct answer.

- a) 1&2&3
- b) 2&3&4
- c) 1&2&4
- d) 1&3&4

7) What is the encryption technique that uses a random key and fixed substitution over the entire message?

- a) Caesar Cipher
- b) Playfair Cipher
- c) Monoalphabetic Cipher
- d) Hill Cipher

8) Based on the use of 5x5 matrix of letters constructed using a keyword.

- a) Caesar Cipher
- b) Playfair Cipher
- c) Monoalphabetic Cipher
- d) Hill Cipher

9) Encoding in Playfair cipher, if the letters appear in the same row of the table, we replace them with the letters on there respectively.

- a) Right
- b) Left
- c) Above
- d) Below

Lecture-4

10) Encoding in Playfair cipher, if the letters appear in the same column of the table, we replace them with the letters on there respectively.

- a) Right
- b) Left
- c) Above
- d) **Below**

11) We use lists to implement monoalphabetic cipher algorithm.

- a) 3
- b) 1
- c) **2**
- d) 0

12) What type of attacks used to decrypt Symmetric encryption.

- a) DOS
- b) **Man-in-the-Middle**
- c) Brute force
- d) DDOS

13) What type of attacks used to decrypt Asymmetric encryption.

- a) DOS
- b) **Man-in-the-Middle**
- c) Brute force
- d) DDOS

14) How many types of keys used in Asymmetric encryption.

- a) 1
- b) **2**
- c) 3
- d) 0

15) How many types of keys used in Symmetric encryption.

- a) 1
- b) 2
- c) 3
- d) 0

16) Encrypt the word *alphabet* using a Caesar cipher with a shift of 3

- a) DVSDULQV
- b) DOOFOHDU
- c) DOSKDEHW
- d) DORQHBHV

17) The following word was encrypted using a Caesar cipher with a shift of 2: ecguct. What word is it?

- a) julius
- b) caesar
- c) romans
- d) cipher

18) A cipher is _____.

- a) a person who makes up secret codes
- b) an algorithm that is used to scramble text so that it can be passed in secret
- c) a lock that can be used to lock a message in a lock box
- d) any puzzle, such as a crossword or Sudoku puzzle

19) A Caesar cipher is an example of a _____.

- a) transposition cipher
- b) bimodal cipher
- c) substitution cipher
- d) substantial cipher

20) In Cryptography, original message, before being transformed, is called

- a) Simple Text
- b) Plain Text**
- c) Cipher Text
- d) Filled Text

21) An encryption algorithm transforms plain text into:

- a) Cipher text**
- b) Simple Text
- c) Empty Text
- d) Plain Text

22) A(n) _____ algorithm transforms cipher text to plain text.

- a) Encryption
- b) Decryption**

23) The _____ is a number or a set of numbers on which the cipher operates.

- a) secret
- b) cipher
- c) key**
- d) none of the mentioned

24) Encrypt the word Lagoon using a Caesar cipher with a shift of -3

- a) hwckkj
- b) odjrrq
- c) jyemml
- d) ixdlk**

25) Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.

Explanation: Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

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- a) True
- b) False

26) Which of the following is a type of substitution cipher?

- a) Monoalphabetic cipher
- b) transposition cipher
- c) transportation cipher
- d) transforming cipher

27) What will be the ciphered text for the input string “sanfoundry” with key string as “code” to the program of keyword cipher?

- a) SCMBNUMERY
- b) SSCMBNUMERY
- c) NIFO
- d) NILO

28) Which of the following was the first diagram substitution cipher?

- a) autokey cipher
- b) hill cipher
- c) one time pad cipher
- d) playfair cipher

29) Playfair cipher is harder to crack than keyword cipher.

- a) True
- b) False

30) What is the alternative name of playfair cipher?

- a) Wadsworth's cipher
- b) Wheatstone playfair cipher
- c) Playfair rectangle
- d) Wheatstone cipher

31) What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)? **Note: this is a 'Sanfoundry Question'**

- a) INDIAN
- b) WORLD
- c) DOLLAR
- d) HELLO

32) What is the rule for encryption in playfair cipher if the letters in a pair are identical?

- a) then that pair is neglected
- b) a null is added in between the letters
- c) one of the identical letter is replaced by some other letter
- d) then both of the letters are replaced by the letter appearing just next in the row

33) What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?

- a) they are replaced by the letter appearing immediately below them respectively
- b) they are replaced by the letter appearing immediately right to them respectively
- c) they are replaced by the letter at the corner of the row
- d) that pair is neglected

34) What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?

- a) ZHQAPNPAFR
- b) AHQAPNPAFR
- c) HAQAPNPAFR
- d) QHAAPNPAFR

35) What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?

- a) they are replaced by the letter appearing immediately below them respectively
- b) they are replaced by the letter appearing immediately right to them respectively
- c) they are replaced by the letters at the corner of the row
- d) that pair is neglected

36) What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?

- a) they are replaced by the letter appearing immediately below them respectively
- b) they are replaced by the letter appearing immediately right to them respectively
- c) they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively
- d) that pair is neglected

Answers

Question	Answer
1	B
2	A
3	B
4	A
5	A
6	C
7	C
8	B
9	A
10	D
11	C
12	B
13	B
14	B
15	A
16	C
17	B
18	B
19	C
20	B
21	A
22	B

Lecture-4

23	C
24	B
25	B
26	A
27	A
28	D
29	A
30	B
31	C
32	B
33	B
34	B
35	A
36	C

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