COMPUTER SECURITY

Question Bank

Helping Others Have Special taste

Questions

1) A/An …………. Cipher is any cipher based on substitution using multiple substitution alphabets.
   a – Playfair
   b – Polyalphabetic
   c – Vigenère
   d – None

2) Which cipher technique have the following features in common?
   - **A key determines which particular rule is chosen for a given transformation.**
   - **A set of related monoalphabetic substitution rules is used.**
   a – Playfair
   b – Polyalphabetic
   c – Vigenère
   d – None

3) In polyalphabetic cipher we shift the first three letters to the right as follows.
   a – 5,3,7
   b – 5,7,3
   c – 3,5,7
   d – 7,5,3

4) Using polyalphabetic cipher, what is the encryption of "secure me"?

    a – vjjxwl pj

    b – vjjxwo pj

    c – vjjxwo pl

    d – vjjxwp pl

5) To decrypt polyalphabetic cipher, we shift the first three letters by …………… respectively.

    a – Right, 5,3,7

    b – Right, 3,5,7

    c – Left, 5,3,7

    d – Left, 3,5,7

6) Using Vigenère cipher, encrypt "CAN YOU ENCRYPT ME" using key= "SECURE".

    a – UEP SFY WRELPTL RQ

    b – UEP SFY WRELPTL JQ

    c – UEP SFY WRELPTL QG

    d - UEP SFY WRELPTL QQ

7) Using Vigenère cipher, encrypt "MICROSOFT" using key= "WINDOWS".

    a – IQPUCOGBB

    b – MVOCMEMCF

    c – VOEMOEMCF

    d - IQCPEMNCE

8) Using Vigenère cipher, decrypt "NZU LRRCYXGTO MM" using key= "PLAIN".

    a – YOU ENCRYPTED ME

    b – YOU DECRYPTED ME

    c – YOU DECRIPTED ME

    d – None

9) **Using Vigenère cipher, decrypt "ECOOEPXMQAV" using key= "PLAIN".**
   - a – PROGRAMMIEZ
   - b – BROGRAMMING
   - c – PROGRAMMING
   - d – None

10) **A cipher which incorporates the plaintext into the key.**
   - a – Polyalphabetic
   - b – Vigenère
   - c – Transposition
   - d – Autoclave

11) **Using autokey cipher, encrypt "attack is today" assume that key = x.**
   - a – xtmtcm sa lhrdy
   - b – xtxtcm sa lhrdy
   - c – xtxtcx sa lhrdy
   - d – None

12) **Using autokey cipher, decrypt "vhgtpnixh ez yunhyoc" assume that key = s.**
   - a – encrypted by autokey
   - b – decoded by autokey
   - c – decrypted by autokey
   - d – None

13) **Using rail fence cipher, encrypt "welcome third year" assume that key =3.**
   - a – wcehdee oia lmtryr
   - b – wcehdeeo i almtryr
   - c – wcehde eoi almtryr
   - d – None

14) **Using row transposition cipher, encrypt "this is final exam" assume that key =2431 (note: encrypt without spaces).**
   - a – tinxhsaaiflmsiex
   - b – siexiflmhsaatinx
   - c – siextinxhsaaiflm
   - d – None

15) Which of the following is a type of substitution cipher?
   - a - polyalphabetic cipher
   - b - transposition cipher
   - c - columnar cipher
   - d - rail fence cipher

16) Which of the following correctly defines polyalphabetic cipher?
a) a substitution based cipher which uses multiple substitution at different positions
b) a substitution based cipher which uses fixed substitution over entire message
c) a transposition based cipher which uses multiple substitution at different positions
d) a transposition based cipher which uses fixed substitution over entire message

17) Polyalphabetic cipher harder to decipher than monoalphabetic cipher.
a) true
b) false

18) What will be the ciphered text if the string "SANFOUNDRY" is given as input to the code of vigenere cipher with keyword as "HELLO"?
a) UEWIIDKLL
b) ZEYQCOCM
c) ZEYQCBROCM
d) ZEYQCBROCMJDH

19) Vigenere cipher is an example of _____
a) mono-alphabetic cipher
b) <mark>poly-alphabetic cipher</mark>
c) transposition cipher
d) additive cipher

20) What will be the plain text corresponding to cipher text "PROTO" if vigenere cipher is used with keyword as "HELLO"?
a) SANFOUNDRY
b) <mark>WORLD</mark>
c) INDIA
d) AMERICA

21) Autokey cipher is also known as?
a) vigenere cipher
b) <mark>autoclave</mark> cipher
c) auto key cipher
d) auto cipher

22) Rail fence cipher is an example of _____
a) mono-alphabetic cipher
b) poly-alphabetic cipher
c) <mark>transposition</mark> cipher
d) additive cipher

23) Encryption in Rail fence cipher is done using _____
a) <mark>by arranging the letters in a zig zag fashion in a table</mark>
b) by randomly arranging letters
c) by arranging letters in vigenere table
d) by swapping adjacent letters

24) Which of the following ciphers are created by shuffling the letters of a word?
a) substitution cipher
b) transposition cipher
c) vigenere cipher
d) hill cipher

25) The number of columns in the table used for encryption in rail fence cipher depends upon the given key value.
a) True
b) False

26) What will be the plain text corresponding to cipher text "SCSEMG" if rail fence cipher is used with key value 2?
a) MSGSEC
b) SECMSG
c) GSMSEC
d) SECGSM

27) In which of the following cipher the plain text and the ciphered text have same letters?
a) autokey cipher
b) rail fence cipher
c) vigenere cipher
d) additive cipher

28) What will be the ciphered text if rail fence cipher is used for encrypting the plain text "SANFOUNDRY" with the key value given to be 2?
a) SNONRAFUDY
b) SORAFUDYNN
c) SNAUDNORFY
d) SANFOUNDRY

29) How does the row transposition cipher differ from other transposition ciphers?
a) It only works with numerical characters
b) It rearranges characters based on rows and columns
c) It substitutes each letter with a number
d) It shifts characters by a fixed amount

30) How are characters arranged in the row transposition cipher?
a) In a zigzag pattern
b) In alphabetical order
c) In rows and columns based on the key
d) In a random sequence

Answers

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

23	A
24	B
25	B
26	B
27	B
28	A
29	B
30	C

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