

Information Technology [Chapter 2 Mid Questions]

2 Marks

1. Describe Steganography in brief.
2. Find Cipher Text for following Plain text and key
 - Plain Text :- All the best
 - Key :- 11
3. Find Cipher Text for following Plain text and key using Ceaser Cipher
 - Plain Text :- Cryptography
 - Key :- 5
4. Write down difference between Steganography and Cryptography.
5. Write down difference between Encryption and Steganography.
6. Find Ceaser Cipher.
 - Plain Text :- We are discovered
 - Key :- 13
 - Plain Text :- Security
 - Key :- 7
 - Plain Text :- Information
 - Key :- 9
 - Plain Text :- Technology
 - Key :- 2
 - Plain Text :- Information Security
 - Key :- 5
7. Differentiate Substitution Technique and Transposition Technique.

5 Marks

1. Enlist and Explain Ingredients of a Symmetric Cipher model.
2. What is symmetric encryption ? Describe key terms used in symmetric encryption.
3. Explain symmetric cipher model with a suitable Diagram.
1 2 3 same answer.....
4. Enlist Transposition Technique and explain any one with suitable diagram.
5. Enlist Substitution Technique and explain any one with suitable diagram.

6. Find the cipher text for following plain text and key using Playfair cipher.

- Plain Text :- Playfair cipher has a great advantage over monoalphabetic cipher.

- Key :- Umbrella

7. Find the ciphertext for following Plaintext and key using railfence technique.

- Plain Text:- sometime later become never

- Key :-4

8. Find the ciphertext for following plaintext and key using polyalphabetic cipher.

- Plain Text :- One time pad use random keys

- Key :- Accept

9. Find the ciphertext for following plaintext and key using columnar cipher.

- Plain Text :-Early to bad and early to rise

- Key :-World

10.Find hill cipher

- Plain Text:- [29 7 2]

- Key :- [2 9 8]

- [0 5 7]

- [4 6 3]

11.Find Columnar cipher

- Plain Text :- Do not talk until you are proud

- Key :- Worth

12. Find Playfair cipher

- Plain Text :- Hill cipher is a multi letter cipher

- Key :- Cryptography

13. Find Polyalphabetic cipher

- Plaintext :- Plaintext can be hidden in two ways

- Key :- Afford

14.Find Railfence cipher

- Plain Text :- Work for it more than you hope for it

- Key :- 7

15. Find hill cipher

- Plain Text :- [11 20 9]

Key :- [1 2 3]

[2 3 4]

[3 4 5]

16. Explain Steganography in detail.