**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

1. Find Cipher Text for following Plain text and key using Ceaser Cipher

* Plain Text :- Cryptography

Key :- 5

1. Write down difference between Steganography and Cryptography.
2. Write down difference between Encryption and Steganography.
3. 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

1. 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…..**

1. Enlist Transposition Technique and explain any one with suitable diagram.
2. Enlist Substitution Technique and explain any one with suitable diagram.
3. 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

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

* Plain Text:- sometime later become never

Key :-4

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

* Plain Text :- One time pad use random keys

Key :- Accept

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

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

Key :-World

1. Find hill cipher

* Plain Text:- [ 29 7 2]

Key :- [ 2 9 8 ]

[ 0 5 7 ]

[ 4 6 3 ]

1. Find Columnar cipher

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

Key :- Worth

1. Find Playfair cipher

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

Key :- Cryptography

1. Find Polyalphabetic cipher

* Plaintext :- Plaintext can be hidden in two ways

Key :- Afford

1. Find Railfence cipher

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

Key :- 7

1. Find hill cipher

* Plain Text :- [ 11 20 9]

Key :- [ 1 2 3 ]

[ 2 3 4 ]

[ 3 4 5 ]

1. Explain Steganography in detail.