

## Q. Cryptography :-

It is the science of information security. Cryptography include techniques such as merging words with images and other way to hide information in storage.

- Cryptography is most associated with scrambling plaintext (ordinary text) into cipher text (incryption) then plaintext (ordinary text).

Modern cryptography concern itself with the following four objectives:

- 1) Confidentiality:
- 2) Integrity:
- 3) Non-repudiation:
- 4) Authentication:

## # Confidentiality :-

the information cannot be understood by anyone for whom

it was unintended.

# Integrity :- the information cannot be altered in storage or transit between sender and intended receiver without the alteration being detected.

# Non-repudiation :- the creator / sender of the information cannot deny at a later stage his or her intentions in the creation or transmission of the information.

# Authentication :- The sender and receiver can confirm each other's identity and the origin / destination of the information.

### Cryptography

