

Ans. There are five main security services in Computer Network Security.

1) Access Control :- This service prevent unauthorized access to resources.

2) Authentication + Verification of user identity (for sender and receiver) to communicate with each other.

3) Confidentiality :- providing security to the data send through a network.

4) Integrity :- No modification should be done on data during the transmission

5) Non-Repudiation :- preventing from Dos attack or accessing the server by an unauthorized user.

Ans. The study of encryption known as cryptography. Cryptography is technique of securing information and communications through use of codes so that only those person for whom the information is intended can understand it and process it.

There are various features of cryptography such as ?

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

There are three main ways to perform cryptography.

- 1) Symmetric key cryptography.
- 2) Asymmetric key cryptography.
- 3) Hash functions