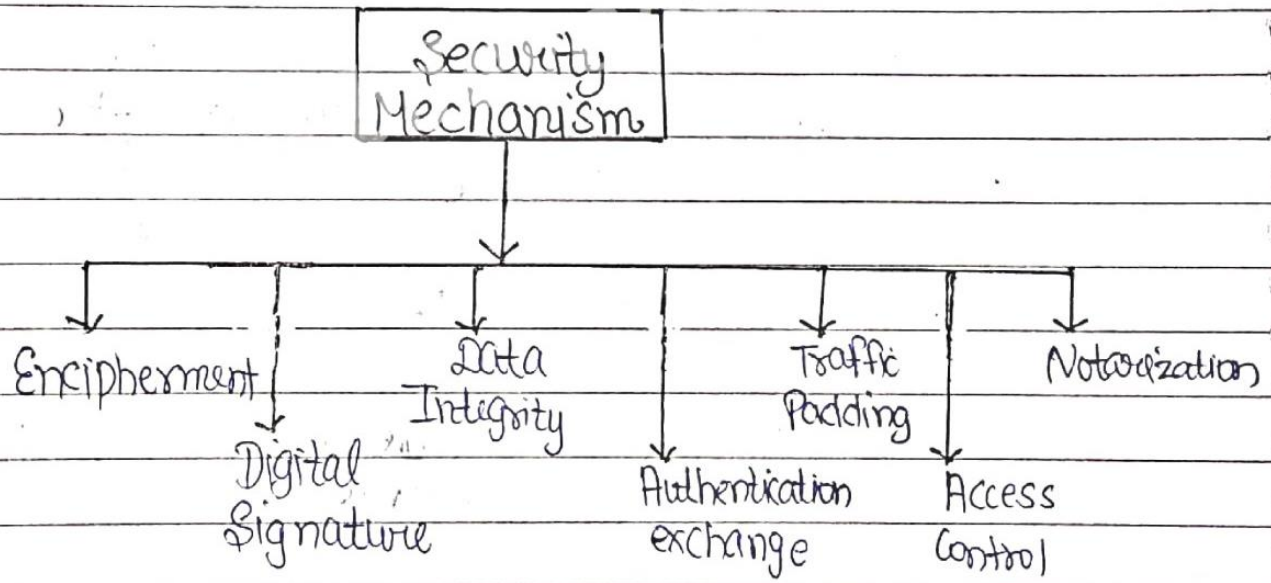
* Security Mechanism :-

- Security Mechanism is set of Processes that deal with recovery from security Attack.
- Security Mechanism are used to Provide security.

* Types of Security Mechanism are :-



1. Encipherment :- This security mechanism deals with hiding and covering of data which helps data to become confidential.

2. Digital Signature :- It means by which the sender can

electronically sign the data and the receiver can electronically verify the signature.

→ It is achieved by adding digital data that is not visible to eyes.

3) Data Integrity:- In this mechanism appends to the data a short checkvalue which is created by itself.
- The receiver creates a new check value from the recived data and compress the newly created check value with the received value.

If both the values (sending and receiving) are same, data integrity is maintained.

4. Authentication Exchange:-

→ In this security mechanism, deals with identity to be known in communication.

→ In this, two entities can exchange some Messages to Prove their identity to each other.

5) Traffic Padding (Bit Stuffing):-

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→ This security mechanism is used to add some extra bits into data while transmitted.

6) Access Control :-

→ This mechanism is used to stop unauthorized access to data which you are sending.

→ It can be achieved by various techniques such as Passwords, adding PIN to data.

7. Notarization :- It means selecting a third trusting Party to control the communication between the two entities.

→ It can be done to Prevent repudiation.

→ This third Party keeps record of requests made by sender to receiver for later denied.