

## \* Computer Network and Security (CNS) - Assignment Number - 6

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### ★ Explain security architecture of OSI.

#### → OSI Security Architecture-

- X.800 recommends sending architecture for OSI. The OSI security architecture define systematic way to asses security needs of an organization and help them to choose various security product and fields.

- The OSI security architecture mainly focuses on:-

- a) Security attack :- Any action which comprises the organization secured information.

- b) Security mechanism :- A process designed to detect, prevent receiver from a security attack.

- c) Security service :- The security service are intended to counter security attack by making use of the one or more security mechanism.



★ Explain IPsec header in detail.

→ IPsec header or Authentication Header (AH):-

• IP Authentication Header is used to provide connection-less integrity and data origin authentication. There are two main advantages that AH provides:

1. Message Integrity

2. Source Authentication

• Authentication Header have 6 part, they are -

1. Next Header

2. Payload Length

3. Reserved

4. Security Parameter Index (SPI)

5. Sequence Number

6. Authentication Data (Integrity Check Value)