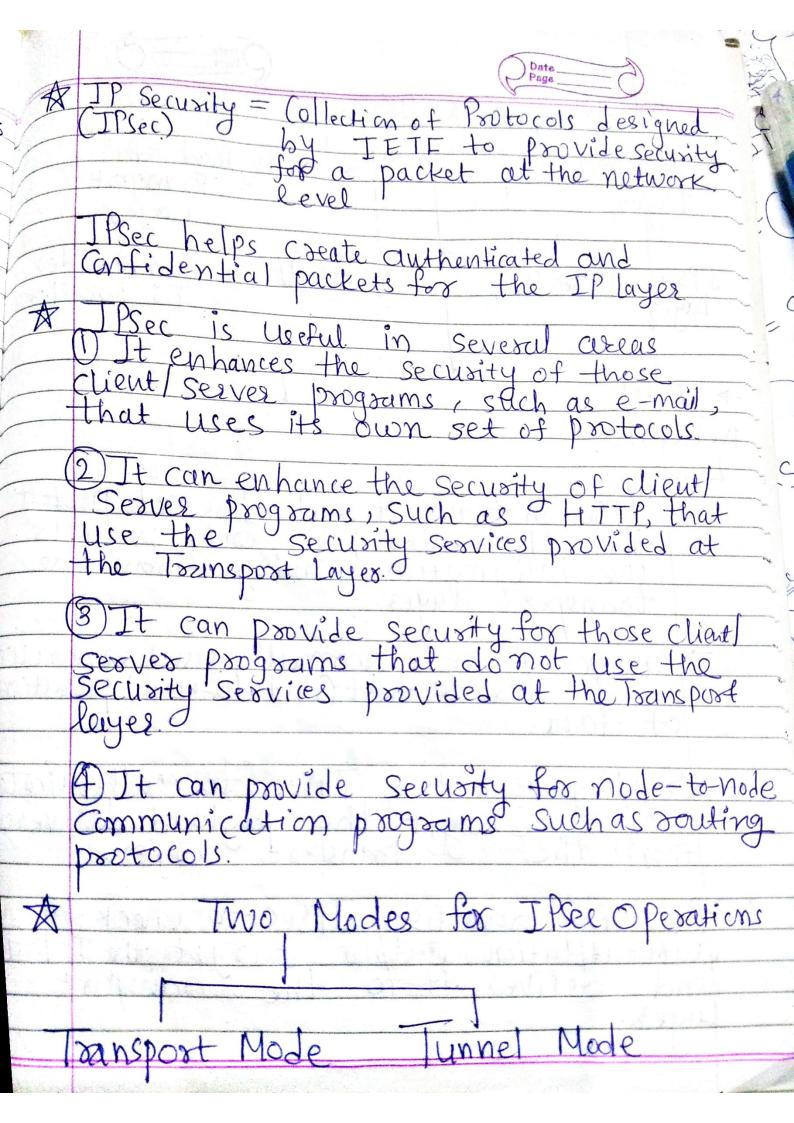
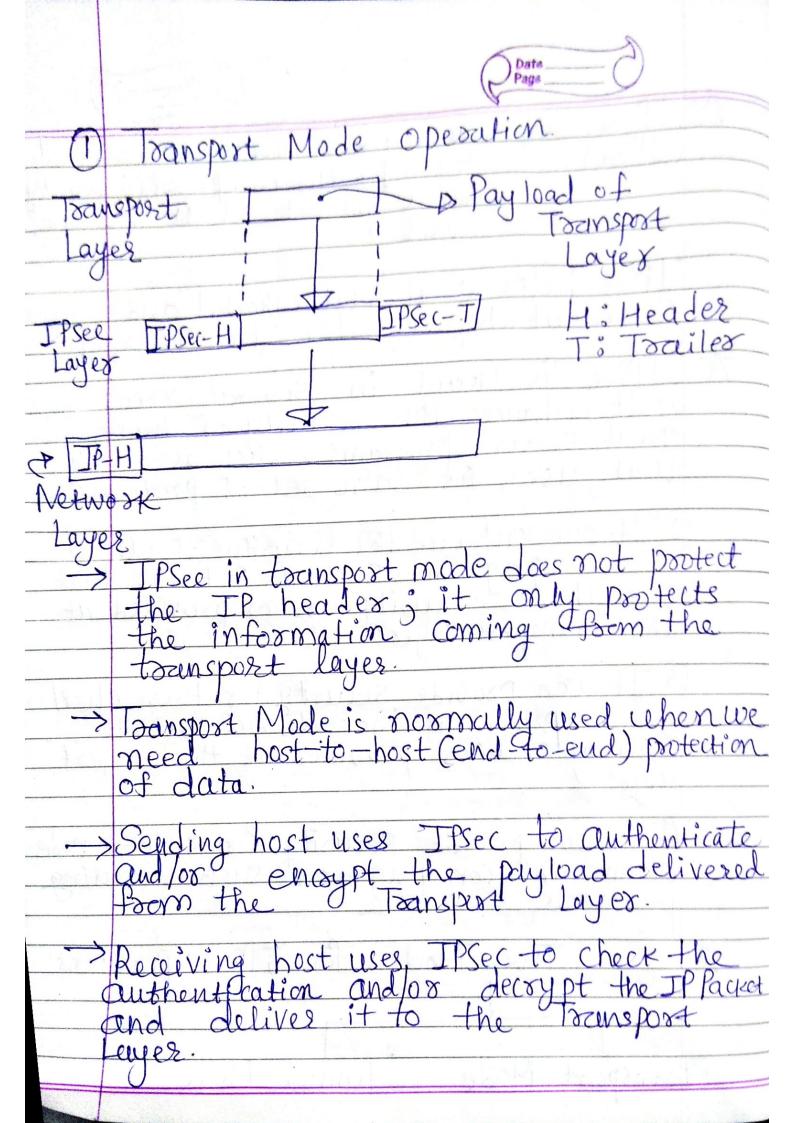
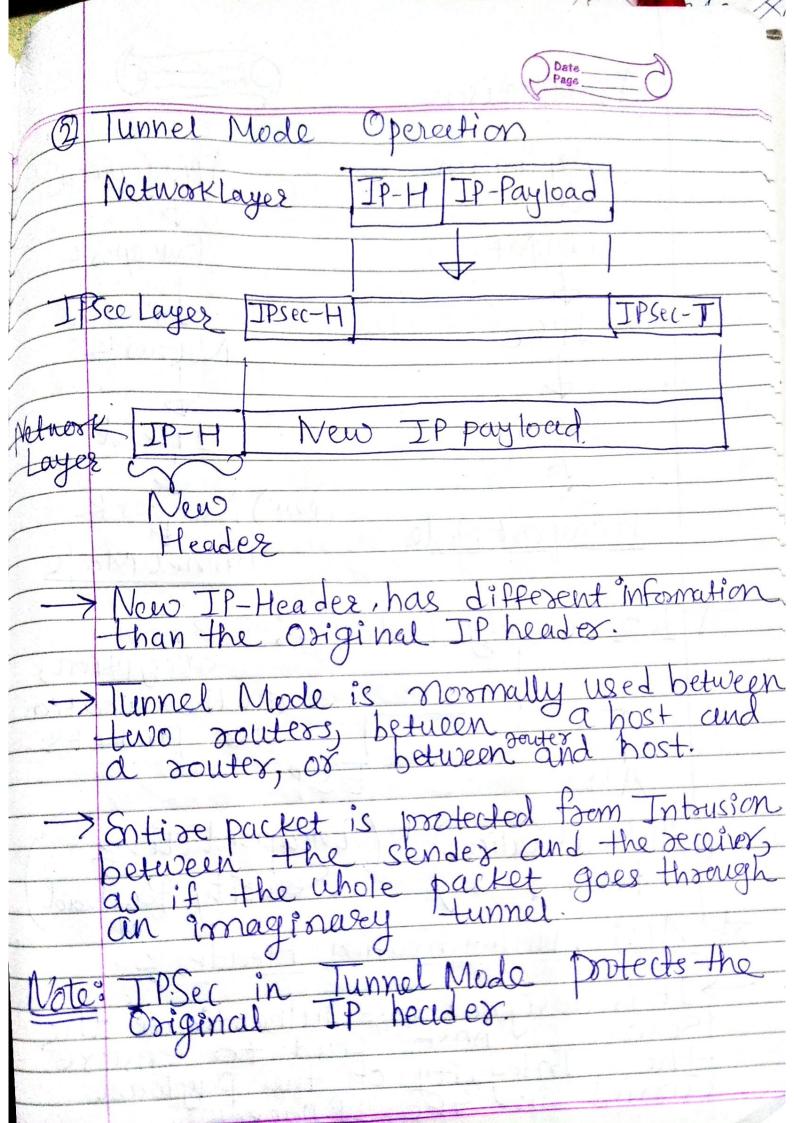
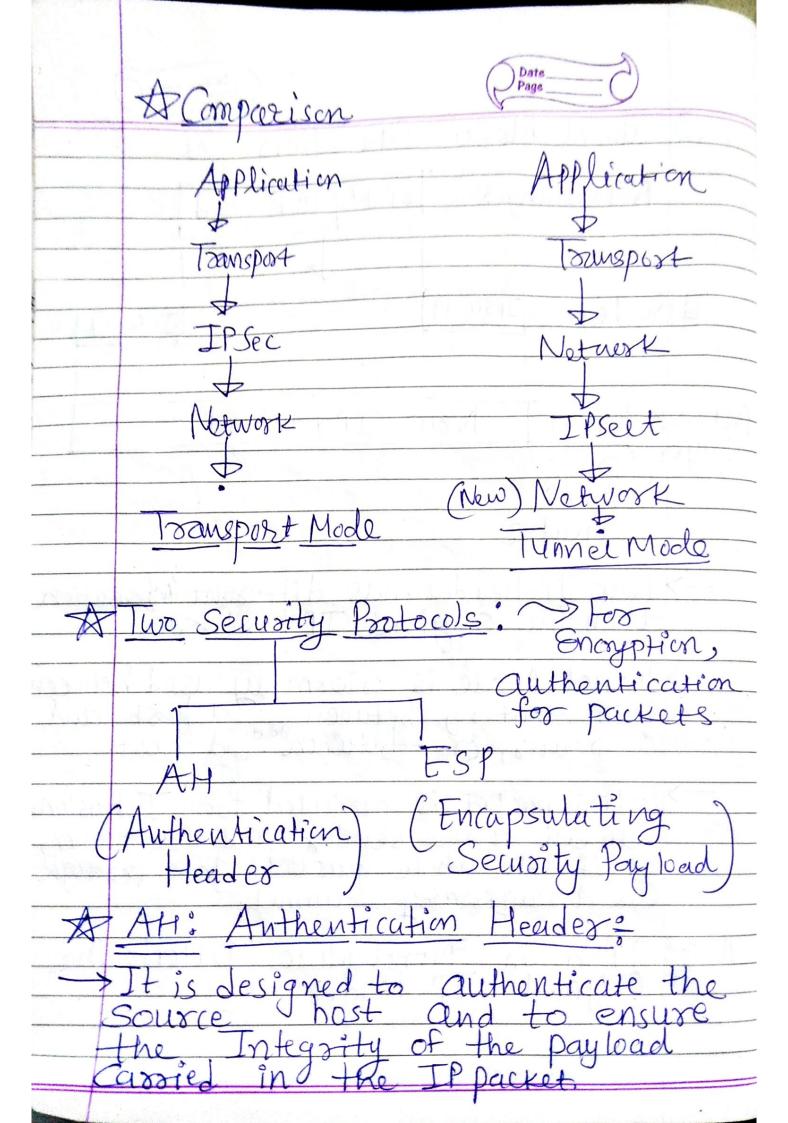
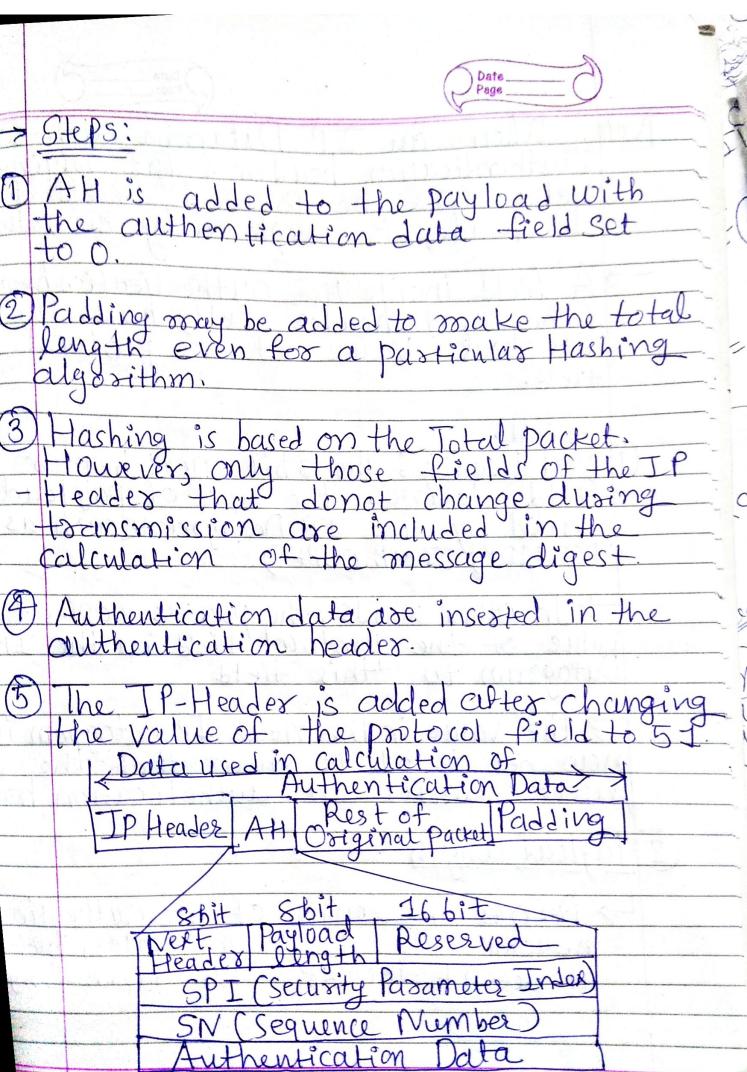
PGP, S/MIME Lecture: * Application Layer SSL TLS Toansport Layer Network Layer POTP: Pretty Grood Privacy J Security SSL: Secused Socket Layer Transport TLS: Transport Layer Security Security IPSec: IP Security Protocol 4 Fer N/w layer A Why do we need Security at Network layer? > Not all client/server programs are protected at the application layer. For example, PGP, SMIME Protect only email. > Not all client-Server Programs at the application layer use the Services of TCP. to be protected by SSLITLS; some programs use service tof UDP. Roseting Protocols directly use service of IP











Steps:

algorithm.



Note: When an IP Datagram carries an Cutherfication header 3 the Original Value in the Protocol feels of the Value 51 IP header is replaced by the Value 51

A field inside the authentication header Othe next header field) holds the Oxiginal Value of the protocol field.

Dest Header: The shit next header
field defines the type of payload
Carried by the IP Datagram (such as
TCP, UDP, ICMP, OSPF)

In other words, the process copies the Value of the protocol field in the IP Datagram to this field

The Value in the new IP Datagram is now set to 51 to show that the packet carries an authetication header.

2) Payload Length

> Defines the length of the authentication header in flyte multiples, but it doesn't include the fixt 8 bytes.

