The ond compare it with IPV4? Conswort Internet Protocol Version 6 (IPV6) is the latest revision of Internet Protocol (IP) and the first version of protocol to be widely used. IPV6 is a network layer protocol that allows the Communication do take place over the network IPV6 was designed by Internet Engineering task force. Types of IPV6 soldresses -> Unicast address -> It identifies unique node on a network and usually refers to single sender or single receiver -> Multicast address to It represents group of IP devices and con only be used as destination of datagram. -> Anycast address -> It is assigned to set of interfaces that typically belong to different nodes -> Reliability 3 Faster Speeds 3 Routing Efficiency. advantages -: ING Header 4-11 10-31 0-3 Version Traffic Class FLOW Label. 48-55 56-63 Hop limit Payload length Next Header 64-191 Source Address Destination Adolvess 192 -288

IP V 6 > The Space is 128 buts The length of header is 40 bytes The number of headerfield is 8

-> Checksum field eliminated from header as ever in IP header ore not very outial

-> Internet Protocal Security Security is mandadary

-> Clients donot have to approach any such server as they are given permonent address.

-> The address space is 32 bits.

The length of header is 20 bytes.

-> The number of header field is 12.

-> Checksum fieldrised to measure ever in the header required

Security much respect to network security is optional

To Clients have approach Dynamic host Configuration Server whenever they connect to network.

Ques 2) Discuss three points of simple key monagement for internet protocols in details?

(Auwer2). Simple Key-Monagement for Internet Protocol Or SKIP was a protocol developed in 1995.

- · Skip (SKIP) is hybrid key distribution protocol
- . It ruses the knowledge of its own secret key and destination public component to calculate a rinique key to be rised only between them

- Ond data link layer. Skip is tronsporent to all the risers and all layers above it. The NETWORK layer value of the data packet
 - · If packet with Skip message MAC HEADER IP Header Skip Message
- · In Skip, the masterkey is not used directly, but it is hashed together with some other data to produce key.
- . SKIP rises long term Diffie Hellmon public keys

QUEST) (a) What is DHCP?

(DHCP) Dynamic Host Configuration protocol
is a network management protocol used to
automate process of configuring derices on
The networks thus allowing them to rise network
services such as DNS, & NTP and ony communication
based on UDP or TCP

DHCP Client

Server DHCP client

DNS Server.

