Static Mapping: In the we wante a table that associates a logical address usits a physical address and stone in each marline.

* Static IP address does not elarge ary time, is bes source is d'aprelle to designate but is more stable tour dyranie address. Ile cost to maintain static address is lore totuques order born in born los relata is loss respicantel. Granic Maping = In this, we use a protocol to first rarotter adobress. ARP-map a logical address to present RARP - map physical address to bajust address. Dyranic IP address dorge any time and is seen to designate. It is ber stable the static IP address and cost maintenance is compositively less. It is used whom Mata is more confidential and roads nore security

Yere stamp request & time stamp reply messages in ICMP are used to detornine the round trips time reeded for on IP datagram to travel between them. It can be used to calculate round trap time and syndroning two clocks in 2 madries if the exact one-way time duration is known. sending time = receive timestory orccaining time = orationed time - transmit round trip time = sending +receiving time. 3- 3- way Landhale TCP. a cliente establish correction with sower - SYN & Sower responds to client request with SYN-ACK signal bits sol. Teral stop is client acknowledgement of sorver response and correction established 4-way larilate TCP. TCP sends FIN. regnert which performs passive close. The application will place the society and TCP serve a FIN. Finally TCP roceines a final FIN [the end which initiated the active close I acknowledge the FIN St. John's SIRS SIA It is 4 way Rondeloho.

TCHP It is a supporting postered used by retwork devices like vientors for sending exorer moseages and exercitions internation. Næd of ICMP in soon scarrous:

1) Source queres nossage:
Wher rocciving host datacts that the rate of serding packets Ctraffic rate to it is to fost, it sends Leure grovel nossage, a seguest to the source to docrerie troffic orale and slow clown the pace so that no parket is lost and congestion is reduced at a particular router. ii) Parameter porblem:
"Ye calculated leader clecksum should be equal to the received header electeur when grackets come to the renter De neuter discords the packet in case of mismatch so I CMP will take source I'm from discorded packet and informs to the source by sending at population problem message.

Time exceeded message: When some fragments are lest is a network the bolding Gragnort by the starter will be dropped the Irre will take some IP from discorded parlet and offern De saure, of discorded datagrain yers, by serding time exceeded manage-Destration urreachable: This message comes into play in case of lik, hardware of port failure. Redirection message: This comes with play if there it at star rate to the intended destination or intermediate orator. The nessage informs a last to repolate its routing information and sord packets to an afternate route.

5. Multicasting and Multiple Unicasting: In this , one nodes sends the same information (maybe a combination of viconing flows) to meltiple successors. Die is low it is broderested Ir multiple writest, those we several sources and each source needs to communicate to its rolative sirk and each rode can send different conditation to its neighbours. In multicasting, single nachet travels between 2 nouters: 29 = Yeleconferring In multiple unicosting, multiple copies one sent between 2 noutons like eg? a group e-mail. ABHINAV RANJAN RA 1911003010003 CSE AL SRMIST, KTR