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1) Ethernet is connectionless. Upper layer protocals like TCP Establishes Connection. Connection is implemented strough software and connection oriented extranet is also there but by default Ethernet is conscionless

MAC - OBDIES 2) 28 1944 11 232 2128 INS 11

133.333.333-00) a) Oipic 122.122.222.001 77.27.77.77 00-00-00-00-00.00 [] WY-44-WY-44-WY-44 7111.111.001 27.27.77 LAN ROUTER LAN ROUTER ((AN) 22. 22. 22. 22. 22. 22. 22 55. 55.55. 56.55.68 133.333.333.002 122. 222. 202.002 33. 33-33-33. 33-32 88. 88-88-88-16-121. 222. 222.004 133. 333. 333. 003

111.111.11.103

11-11-11-11-11 66-66-66-66-66 99-99-99-99-99

39)

- lotter at 61 warpstook solk hath knimaled A ni sleet Bribasand (1) to interface (111.111.111.002)
- (11) The adopter in A creates od estened packet with Esthernet de 38ino d'on address 22-22-22-22-22-22
- (121) the Sweet rooter received the packet ord Extract & the dasagran. The datagram 12 voited to 22-22.227.000
- (10) she But vower ends the extremet packed with the geograpion approx 22-22-22-22-22 and 3rr agg of 23-32-33-32-3-30 via a insurface with IP
- (N) process construe unstill packet reaches host f

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- In order to send on IP badageon the sender much know both IP ord MAC. In order to know the unknown MAC the sender will receive this mag ord determine that It is a broad could mousage the adapter will then send the may up to it own ARP module Each ARP module checks to see if that IP address moduled it it close, it will send the ARP value to the close, it will send the ARP value to the sender with the MAC inside the Brane I a packet
- i's adapter will process the Brones, but the dalapter will not pass the datagrams up the protocal stack, is the last product address is used the c's adapter will both process the Bones ad pass the datagrams up the protocal stack
- B) An IP dobagion send flome the source host to the destination host will be indexed to move the dobagion from the source to the destination

3) COMA CD

- -) CSMA/CD is Estective after a
- -) It used in wived networks
- -) if only reduced to recovery
- we resend the data frome who ever constict occur
- -) It's move esticient than simple comma

CBMA / CA

- -) complos is Estective before cousion
- -) commonly used in wireless
- -) mainizes the possibilities of
- will shat drosmit the indust to sond Ser. data
- -) with it is similar to simple came

8) (6 % 1 k-1) × RiT

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The Physical address does not change 11 is globally Unique to the computers 11 ic card

The IR address may need to be changed to reflect a new new network 2d and host Id

The Rollhien is Rome der laptor

(io)

-) 601= K3+K5+ Ko (1001).

mulsiply by the no. of bish in the (RC polynomial)

13 (164 1824 182)

19 (100110000

we show divide and desarate the venaindon the vesual is

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a pocket of length 11 over a broadcast channel of

vate k!

The propagation dolay between the two nodes of (dprop)

33 Trasser noded at some time, then receive the

bits of pocket from another node white

Capap 24p

- The collision is accord.