

Essay:-

1) No, even if all the individual links were completely reliable it's still not guaranteed that the end-to-end communication between hosts was reliable.

2) In Billing: ~~computer or controller~~
A discussion leader allows to only one participant to talk at a time with each taking turns to talk in a round-robin fashion.

In Token: There is no leader, but there is a wine glass that participants hold it taking turns. The participant that can talk is the one holding the glass.

3) An ARP query is sent in a broadcast frame because the querying host does not which adapter address corresponds to the IP address in question. For response, the sending node knows the adapter address to which the response should be sent so there is no need to send a broadcast frame (which would have to be processed by all the other nodes on the LAN)

- 4) 1. Divides time into slots for active nodes to send the data continuously
2. Has average transmission rate of R/M bps
3. Being fully decentralized
4. Protocol is simple cheap to implement.

Subject _____
Problems

Date / /

$$1. \begin{array}{r|l} 1 & 1 1 1 0 \\ 0 & 1 1 0 \\ 1 & 0 0 1 \\ 1 & 1 0 1 \\ \hline 1 & 1 0 0 \end{array}$$

2) $G = 10011$
 $D = 1010101010$

Polynomial of $G = x^4 + x + 1$
 $r = 4$

$\rightarrow D+r = 10101010100000$

$$\begin{array}{r} 1000111110 \\ \hline 10011 | 10101010100000 \\ \underline{-10011} \\ \hline 100101 \\ \underline{-10011} \\ \hline 10011 \\ \underline{-10011} \\ \hline 10010 \\ \underline{-10011} \\ \hline 101 \\ \underline{-100} \\ \hline 1 \\ \underline{-1} \\ \hline 0 \end{array}$$

Reminder #

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OSCAR