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Answering to the question no + 01

Given bit pattern,

01010111110010010111111001111110 using BH stuffing,

0111110 0101011110 0010010010111110 0111110 10 Sb Sb Sb

stuffed bit -> sb

* There will be an extra 0 after each 5 consequtive 1.

Answering to the question no to 2

aiven Stream,

AB ESC Flag D ESC Flag Stream pattern after Byte stuffing

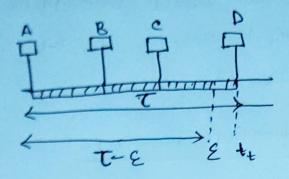
Flag A B ESC ESC ESC Flag D ESC ESC

stuffed byte

ESC Flag Flag

Stuffed byte

Answering to the question no ->03



when, A thansmit Data and phopagate through converts, it can if at the time E, D want to thansmit data then there can be occur collision and thavel back to

Contention Period =
$$(z-\epsilon)+(z-\epsilon)$$

= $2z-2\epsilon$
= $2z-2\epsilon$

secouse of wonst case scenario we consider the propagation delay between two farethest host.

Answering to the question no >04

CSMA/CD is the Carrier sense multiple

Access with collision detection. The transmission
method is used in this is half duplex.

Because when data is transmitted (TX)

trecoving part (RX) detect collision.

When there is no collision tost con

transmit data. But if collision
is detected nost connot send

data. That's why it is half duplex.