Mid-1
Name: Md. Shabayat Hossain
TO: 2019-3-60-034
Course: CSE405
Section: 3

Am. To Q: No: Y

Here, B: 01000011

D: 11111000

Flog! OIIIII O

Ege: 10001111 00-8-8100 - 05

Data to transmit in Framer,

Euse Eise Flag Flag D The Frame in Bit Stuffing,

Stant

Ommo 010000011 1000011110000 1111 011111 01000111110000-Stutted Bit

Eng Flag

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In Physical layer cooling violation data is sent in a bit string, when I = high and O = Jon voltage. For each bit there is a bit stime which will let the receiver will throw . it the bit is I or O. So, To Jetermin the boundary of a frame the start and end bit will the marked halt of the bit time, which will be marked as start and end bit ail be marked as start and end bit ail be marked bit time the boundary.

Now, For the sequence of 100101011

Physical layer coding violation will analyze the consecutive O; and 1's by their bit time.

5 of 5mg is the bit time then for the

consecutive; & the bit time will be 5 * 2 = 10ms and of High voltage and same O's of low Voltage. 12 all determin consecutive is an

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The Propagation delay between the banthest modes is Jusec.

There are 26 modes, so the minimum duration of the polling phase is,

24 - 256 8.86

6 94 - 0.346 4 sec Pen Node,

He the bit map i) \$10011...101011, Node

E was will exect this bit maps and see

how somany 1'; there are before E;

tunn. I mean shot device want, to

transmit. So Between each brane

drammited there is a gap where there will be no signed in the me medium. So E' will only to have to count the gap, till its turn to transmit comes. That's how Node E will determine its tarn,

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The s

In BEB a device will color pick a number brown a set randomly and will multiply the bit time with it to get the wait time. The bit time with it to get the wait time. The Device will generate the set by using,

Set = {0,...,2n-1}33

Where, n = number of times of earth collision.

From the given set of A' the

device A' will randomly pick a number trom,

set={0,1,2,33}

From the given set of 'B' the device

B' will also pick a number Prandomly

Brom ,

set = {0,1,2, 3,4,5,6,7}

Now, shey will collide have collision consecutively it boths the devices picks the same number each time Becaus the the both & have to wait the same bit time to and tall in a collision in shein transmitton persoid.

to Pick The set, of A will be it collision with Eis, A collision = 8034

>ex = 10,... 20-13 = 20,1,2,3,48,5,6,73 The sed to pick of 'B' will be it collision with

B collision = 5, set = 50,..., 25-13 2 { 0, 1, 2, 3, 9, 5, 6, \$, 8, 9, 10, 11, 12, 13, 19, t5}

E

2

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