Mid Semester Examination (6th sem), 2022

- Subject Name: -> computer Networks.
- → Subject Code: → 173202
- → Date of Examination: → 08.03,2022
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 - >> Number of sneets uploaded: -> 7,

(1.) I The reason of wring optical signals in fiber obtices cable is that, optical signals have higher frequency.

to and we also know that.

Wave length of I frequency.

So, the wave length of optical signals is very short, and optical fibers are made from such materials that have low absorption at shorter wavelength so attenuation is lessen here.

D Purpose of vering cladding: >

The comain function of the cladding is to Provide a lower sufractive index at the cose interface in order to cause suffection within the cose were so that light waves are transmitted

through an fiber. I optical signal.

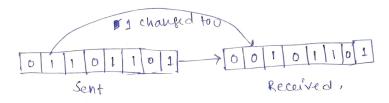
2. We know that a wave at a single frequency does not constitute a "bandwidth".

SO, a sine wave with furquency 10 Hz or 200 Hz have a bandwidth.

Single bit envor: > In this type of envor, only a single bit of the given data is changed either from 0 to 1 or 0 to 0.

Example : >

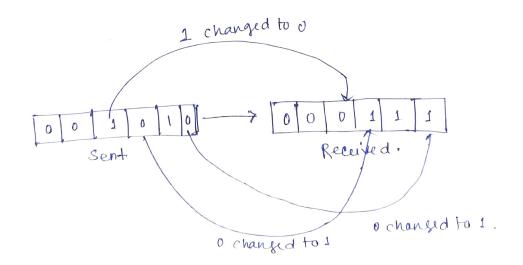
let's the data -> 01101101.



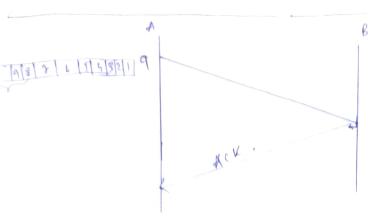
B BWIST ENTOY :->

when two or more bits in the data unit have changed for either from 0 to 1 or 1 to 0.

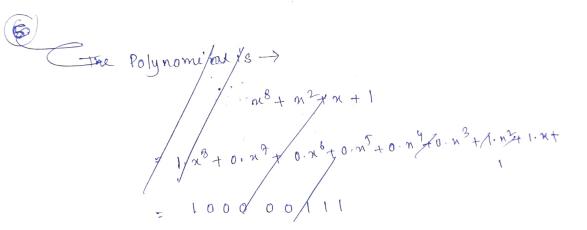
Example :-



Name - Aniket Majhi Enrollment No-510819019 Page -(A) Ws (window size) = 3. Number of packets = 9 103654321 € . Frame 1 tramis the Fuame 2 first window Frame 3 ACK 989654321 ACK France 4 Frames 9876543 2 1 Frame ACY X 13 7 6 5 93 41 7 Frame 7 hetransmil- the X S. 6 7 ACK विश्विद्यात्रात्री ह ACU 9 70 6 5 4 3 21 MAK X Metransmit 7 8 X the window 8 9 ACK 17/3/8/6/5/4/3/1/8 ACK MAK



SO, As we can other & are total 16 frame needs to be sent.



The probability of such = 0.8.

NOW, E= 018 *1+ 018 *1+ ... *ptimes

here, 1 = 100.

:. 80/ 0.8 × n - 100

:. SO, to transmit 100 packets we have to

Data - 1011 0010 0100 1011

(R(Pal - n8 + n2 + r+1)

generator - 100000111

6110000 0111

1.000 100 10

101011011

111011100

1000000 111

100000000

1100000111

CRC

10010011

CRC -> 100 10011

i pata to be Sent -

1011 00100100 1011 10010011

(11)

Computed - 00 11 00 10 01 00 1011

10010011

CRE,

100000111

101100011

100000111

10000011

100101010

1 1 0 1 0 1 0 1 1 1

101100100

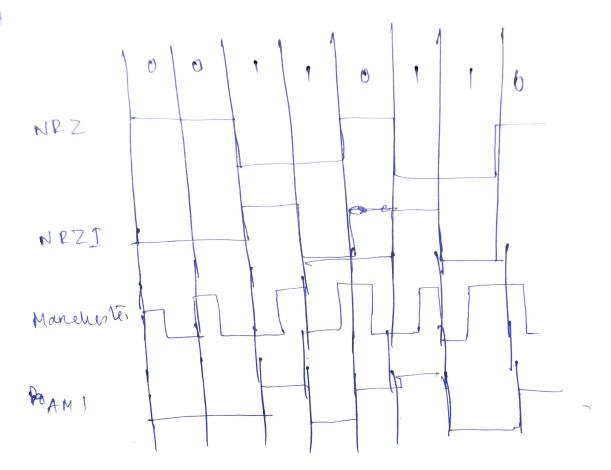
11 000 1110

10000100010

00 00 10 10 11 1

The reminder 15 no Toro.

found by crc.



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