## Ansto QNo-1

a) Each character needs 1 byte. . 5 characters need 5 bytes.

So, In 1 slot there are (5x8) = 40 bits,

in 7 slots there are (40x7) bits = 280 bits.

- mid CAns)

b) Output frame rate = Input rate. = (75-5) × 106 = 15000000 frames/second.

c) Output data rate = frame rate x frame size = (15000000 x 280) bits /s

- 525 MB/s

man some of court man.

d) Input bit duration = input rate

15000000 gecondo

= 66.667 nanosevonda

(Am)

e) Output bit duration =

Input bit eluration number of connections

= 66.6667
nanoseconon

= 9.524 nanosevond.

Lapprox J

f) Output slot duration = 9.524 nanoseconds.

etid (4 more) and event tole 4: weigh

[ Approx]

= 525 143/3

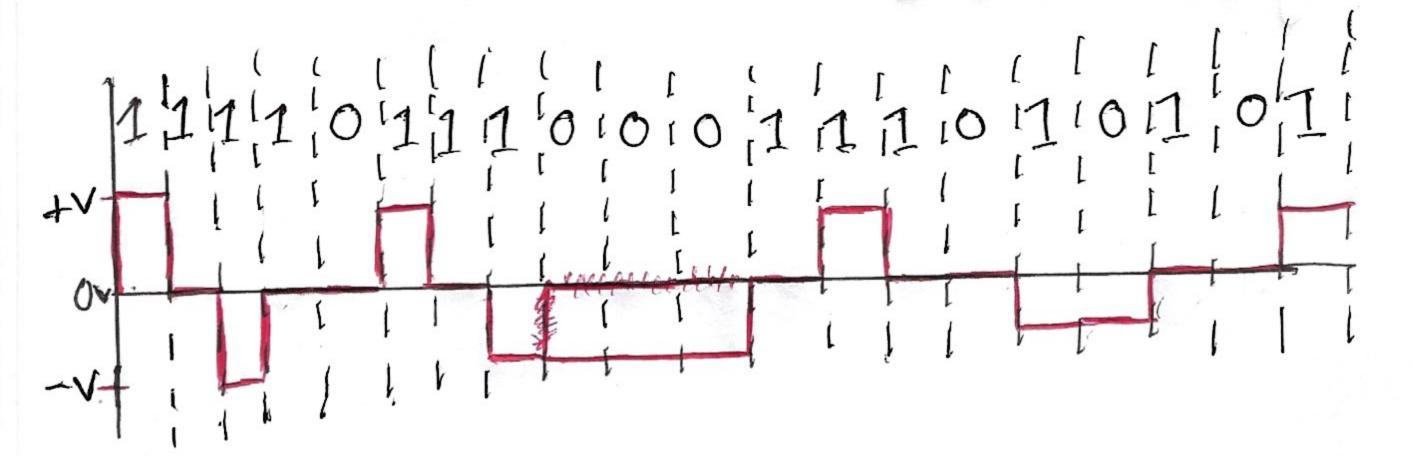
M101072

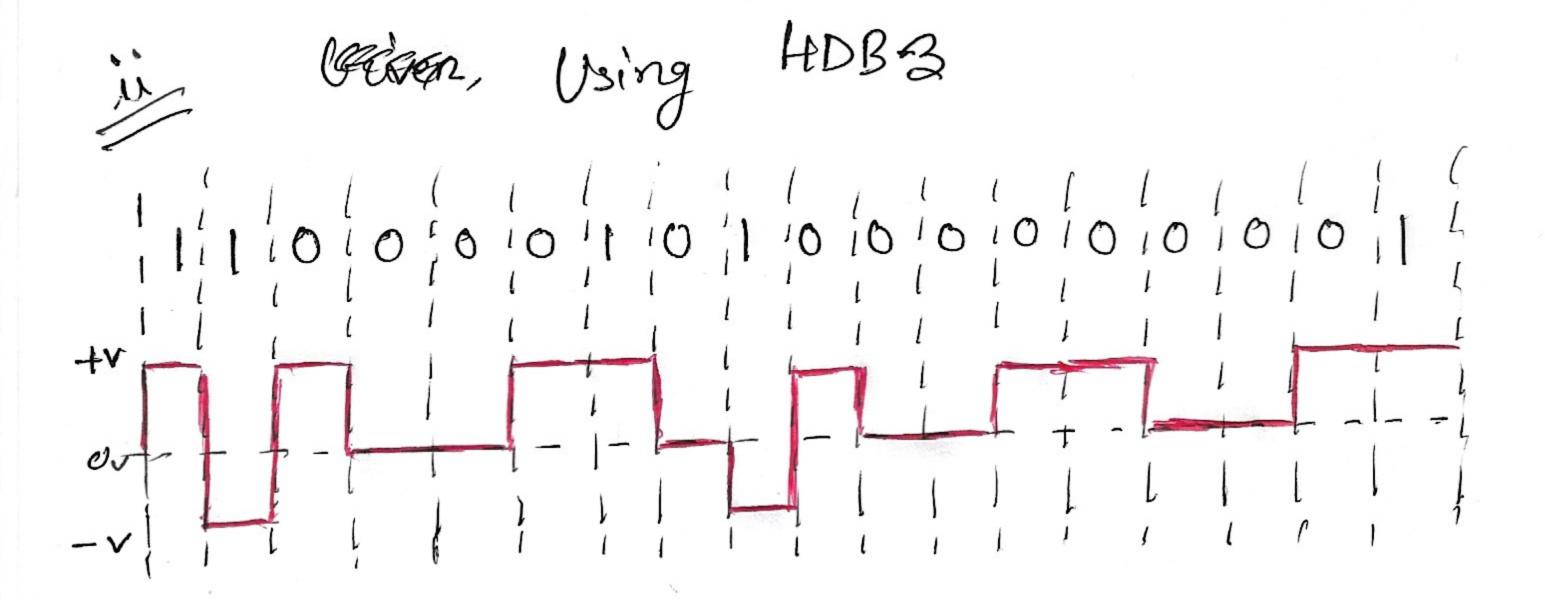
## Antog No-2

I A Fter encoding wring 4B15B, 1001011111111010

becomes -> 11110111000111010101,

## Uring MIT-3 scheme!





## (Am toes No-3

- a) Unshielded twisted-pair cables,
- 6) Twisted pair cables.
- c) Optical Fiber

George Using HDE3