

Subject:  
18101008

Date:

CSE 303

Sec: A

Name: Md. Nafes Imtiaz Anwar

CT-2

Ans To The Q NO: 11

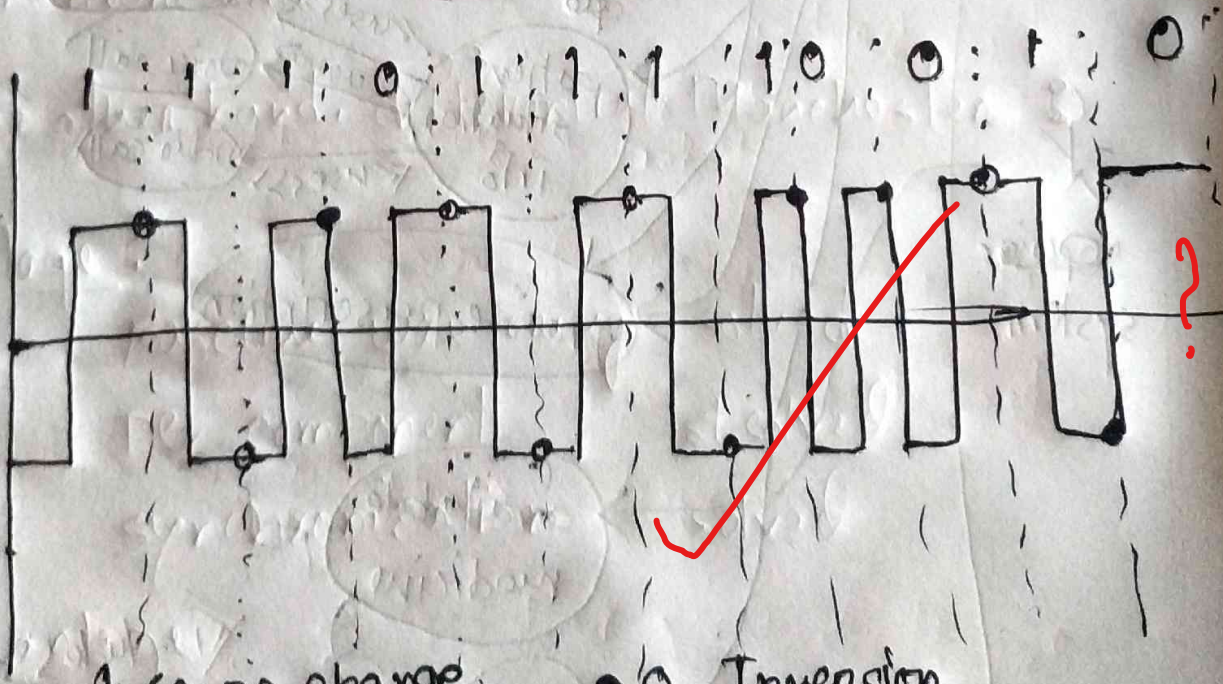
My date of birth  $\rightarrow 17/06/1997$

$$(1906)_2 = 11101110010$$

My ID  $\rightarrow 18101008$

It is even and not divisible by 3.

a



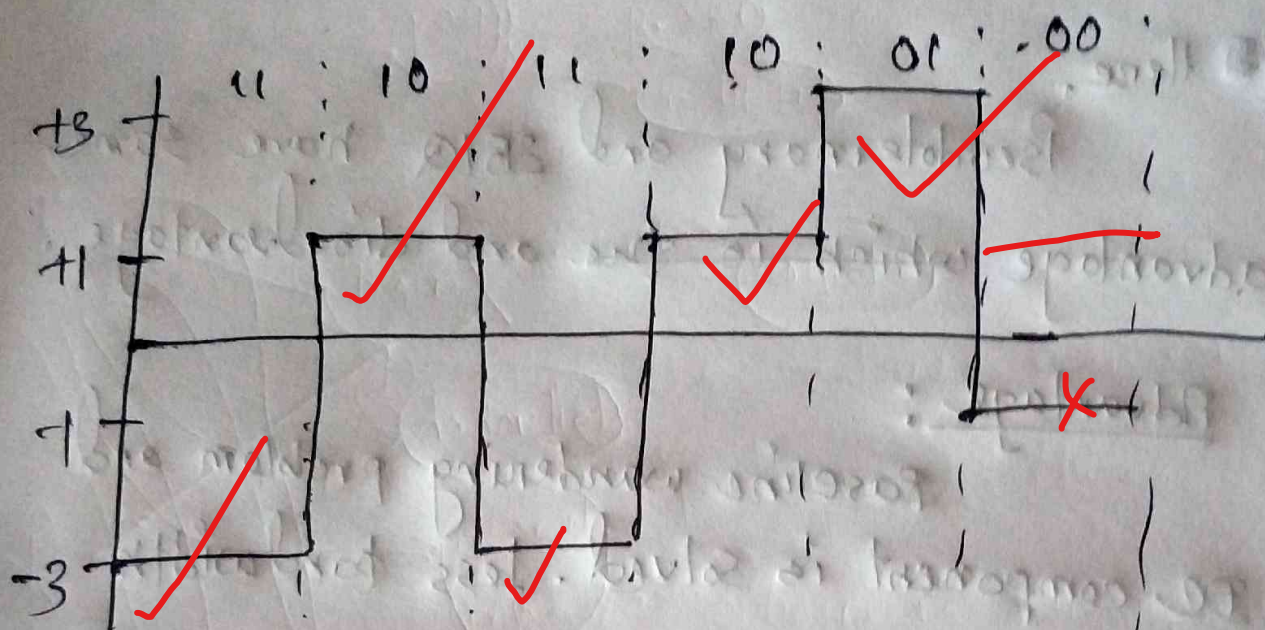
01 so no change

• 0, Inversion

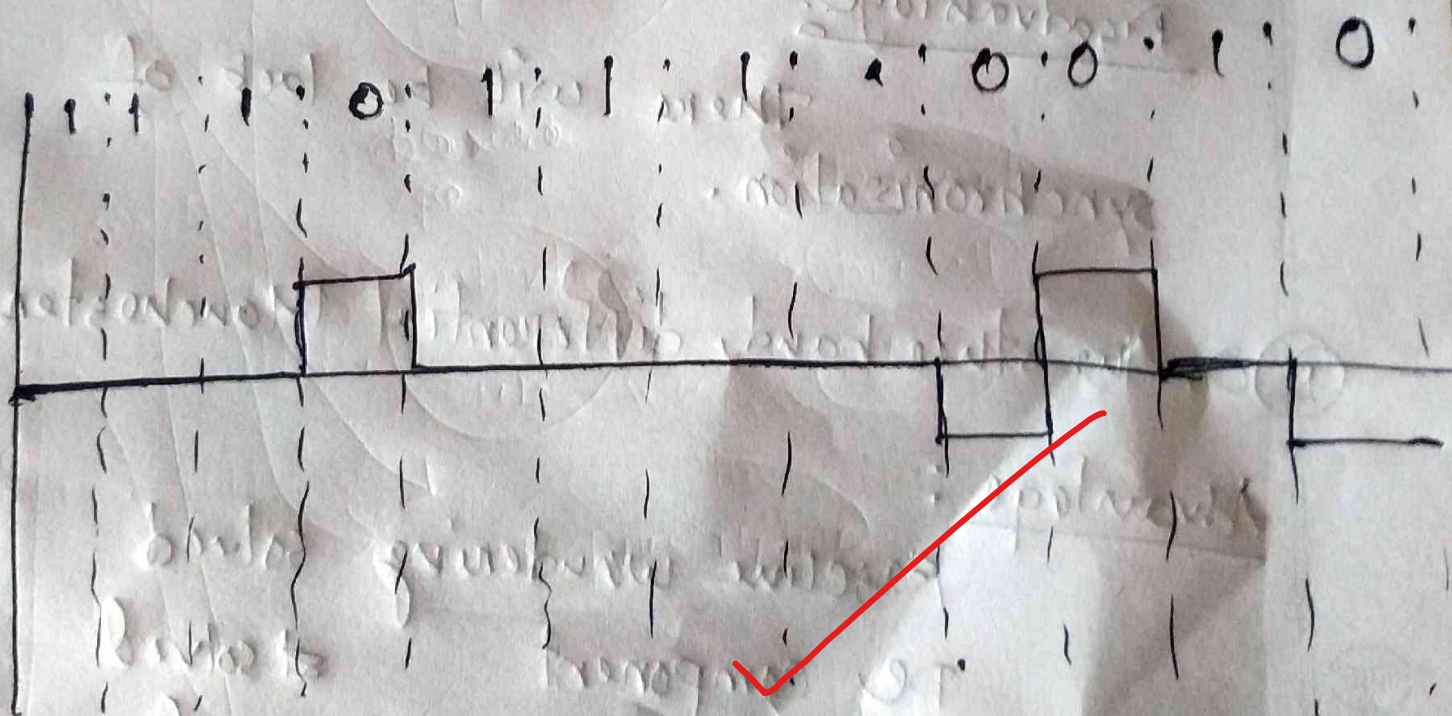
Differential Manchester



11 10 11 10 01 00



2B1Q



Pseudoternary



Ans To (2)

④ Here, Pseudoternary and 2B1Q have same advantage which is ~~the~~ and disadvantage.

Advantage :

Baseline wandering problem and DC component is solved. Less bandwidth needed.

For, 2B1Q More data per signal can be passed.

Disadvantage :

There will be lack of synchronization.

④ On the other hand, differential Manchester :

Advantage :

Baseline wandering solved  
DC component solved  
synchronization solved

Disadvantage :

More Bandwidth required.

I think Differential Manchester is the best as it solved all problems.