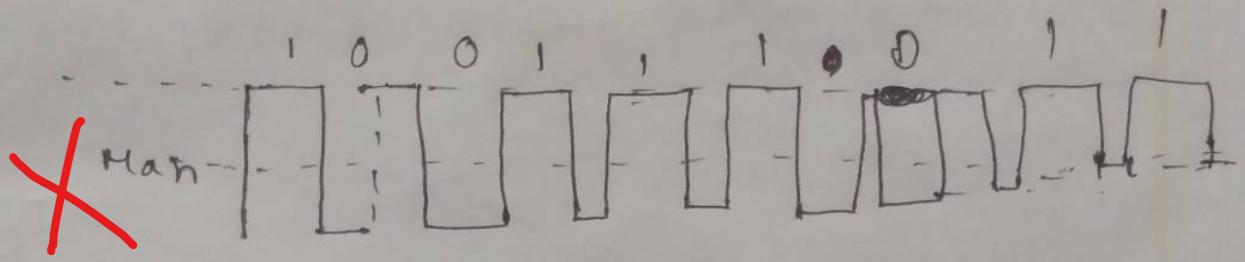
Answer to the Que. No. 1

Here,

my birthday is = 19, 11, 1998

$(1911)_{10} = 100111011$



Answer to the Que. No. (b)

(i). NRZ-I . It's bandwidth $B = N/2$.
No self-synchronization for long 0s, 0e

(ii). 2BIQ . $B = N/4$. No self-synchronization for long same double bits.

(iii). AMI . $B = N/2$. No self-synchronization for long 0s, 0e.

~~2BI~~ NRZ-I seems better to me.