Name: Mubtasim Fuad Iram.
See: A
ID: 17201078 CT: 02
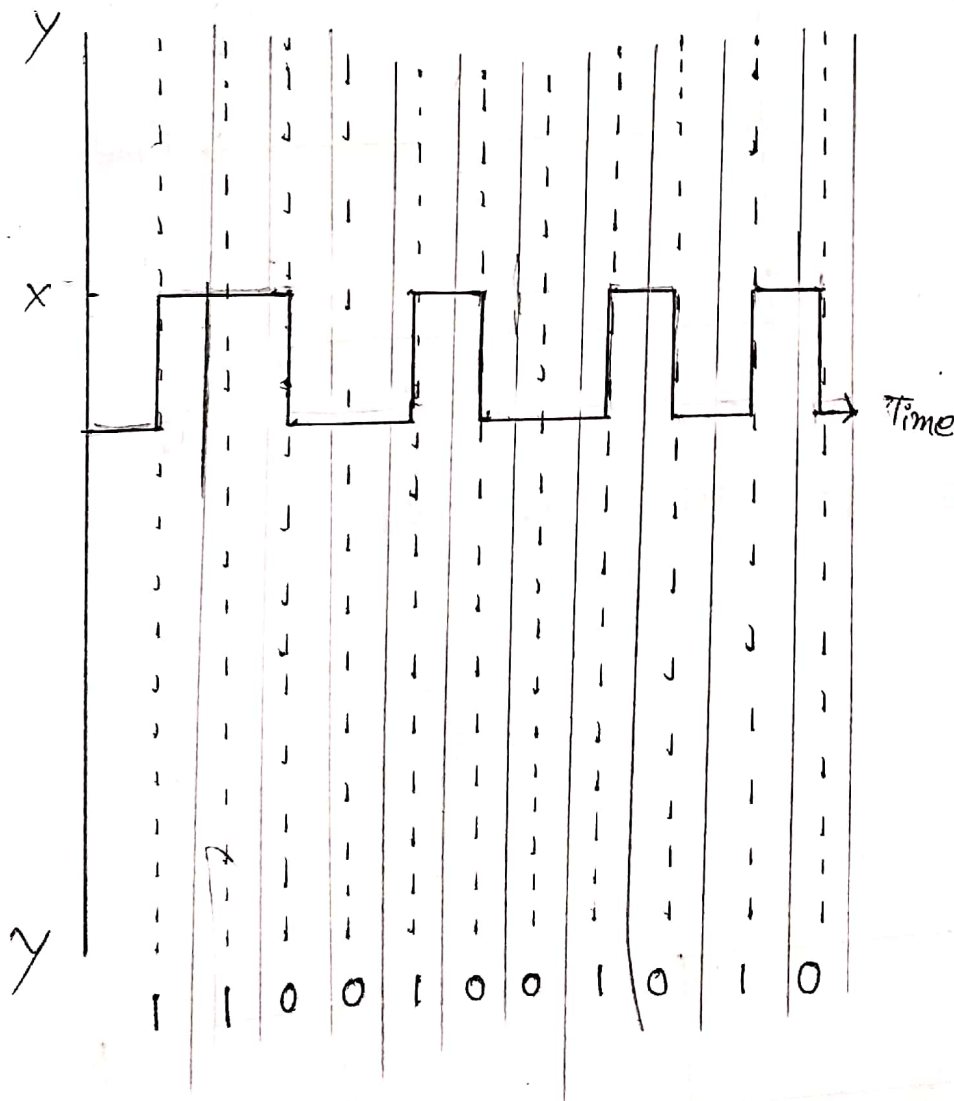Date: 29.09.20

My Birthday is 16.10.1997 so first that 9

digits is $(1610)_{10} = (11001001010)_2$
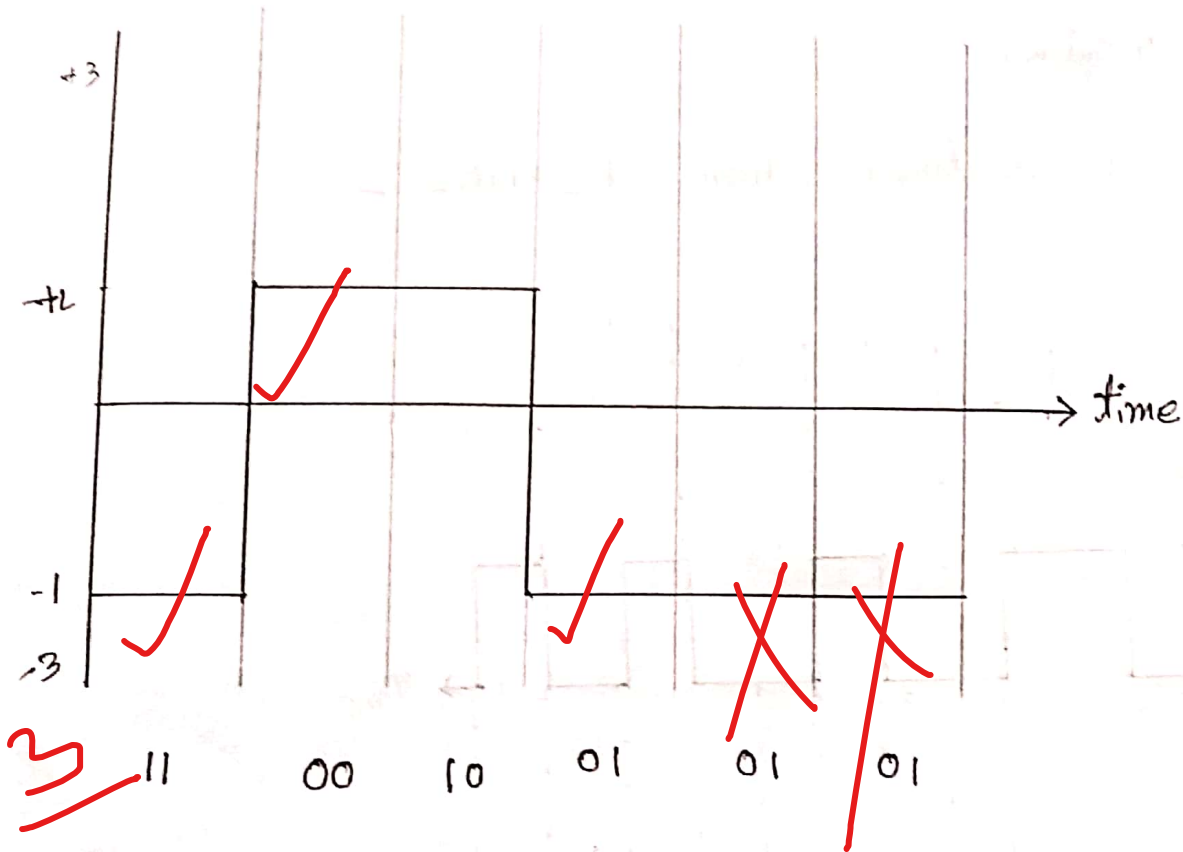
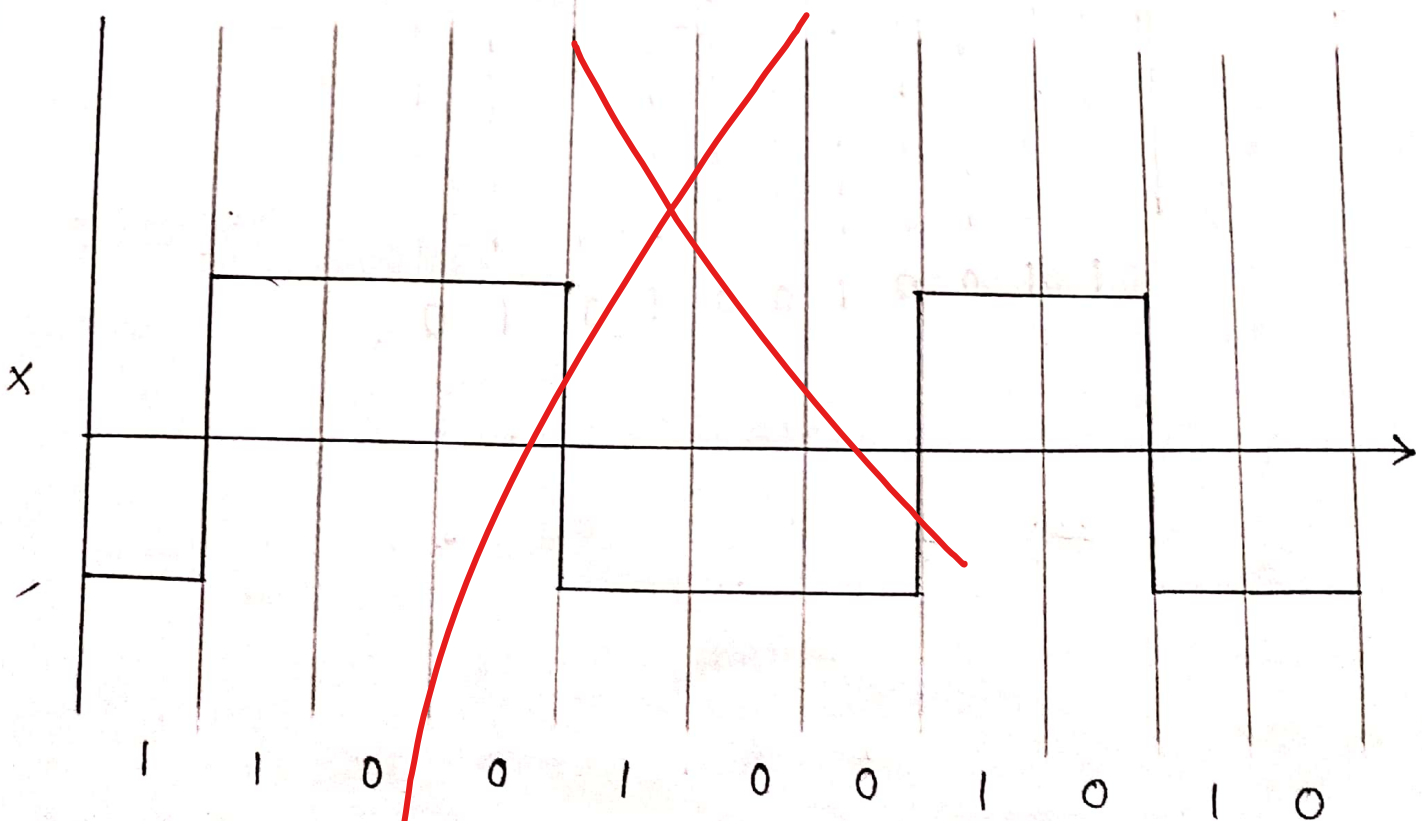a) Manchester.

Here is combined from $R_2 + NRZ-L$

b) 2B1Q

Here,

<u>1100</u> <u>1001</u>0 <u>101</u>   here 1 add last digit 1

11   00   10   01   01   01

c)

X

1   11   0   0   10   1   0   0   1   0   1   0

b) The common types of line encoding are unipolar, bipolar and Manchester encoding. Line codes are used commonly in computer communication networks over short distances. A line code is the code used for data transmission of a digital signal over a transmisson line. This process of coding is chosen so as to avoid overlap and distortion of signal such as inter-symbol interference. Line coding is the process of converting digital data to digital signals.