

Theme:

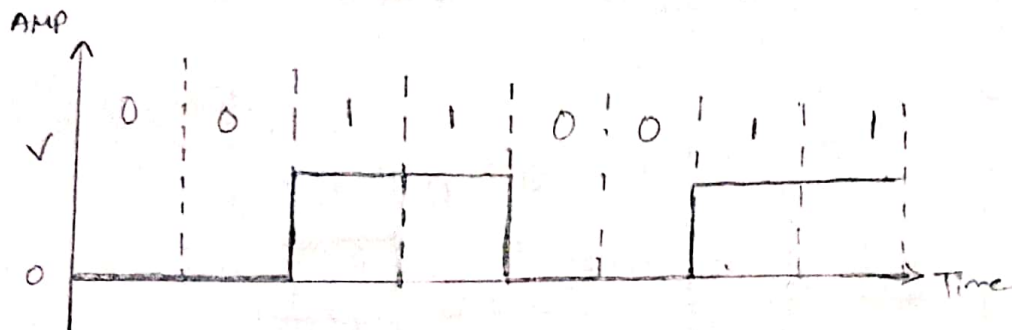
Data. Com Assignment

Date: / /
Sat Sun Mon Tue wed Thu Fri

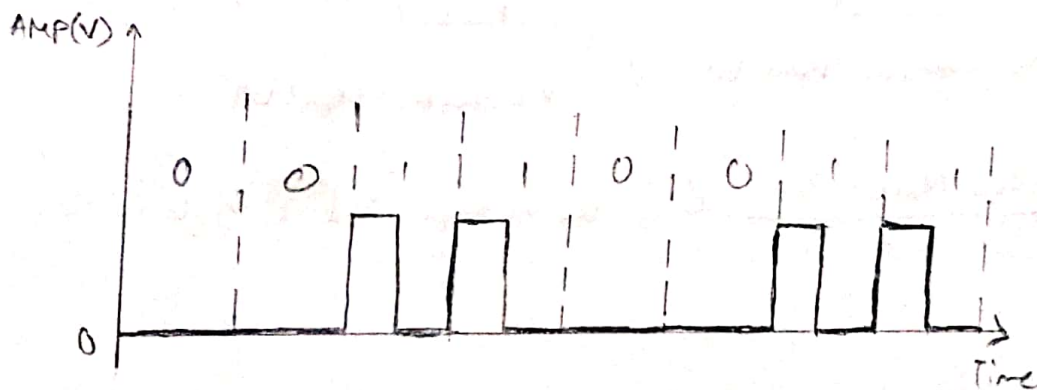
Ans to Q. NO-1
ID \Rightarrow 21-44543-1
AB-CDEFGH

Here, $G = 3$ (ASCII character) = 33 (Hex)
= 00110011 (binary)

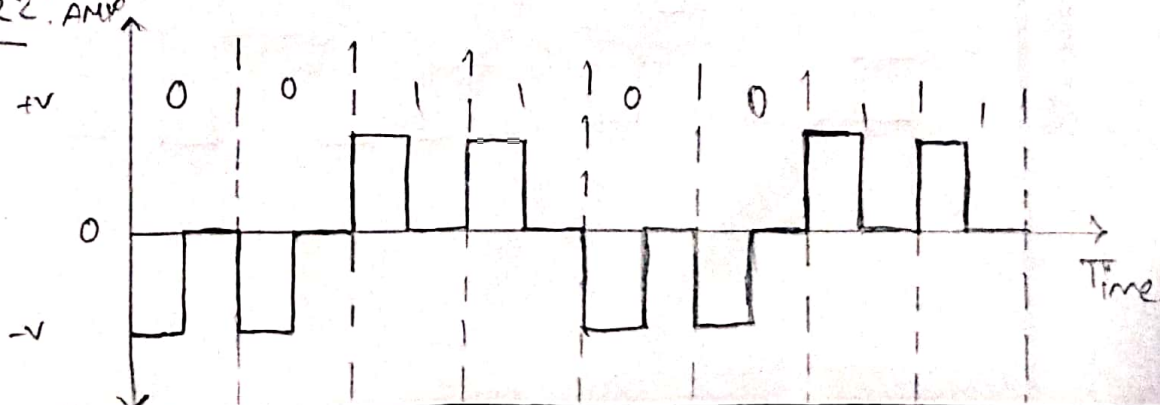
I) Unipolar NRZ:



Unipolar RZ:



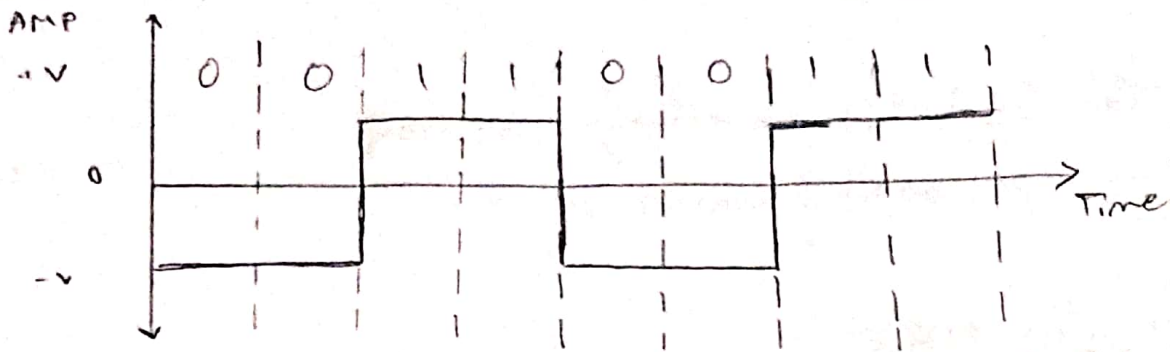
II) Polar - RZ:



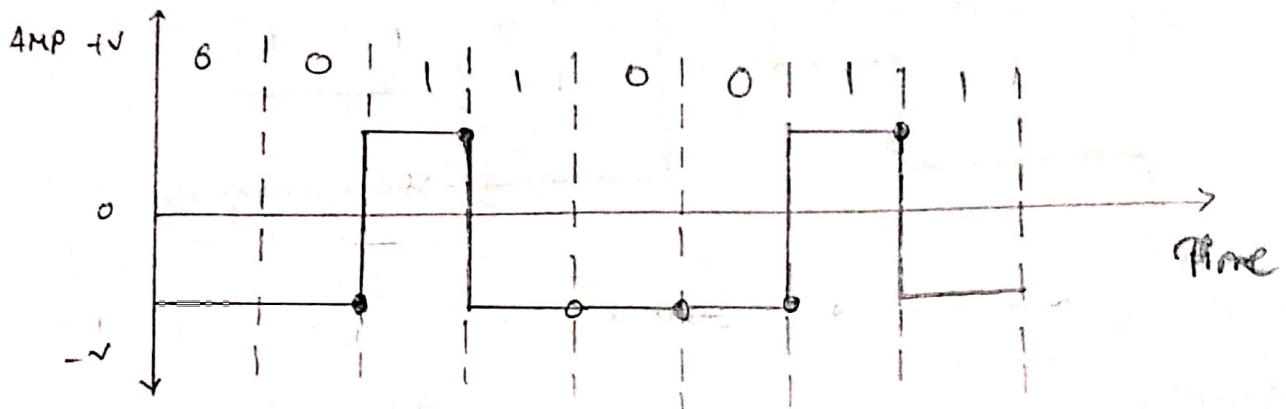
Theme:

Date: / /
☐ Sat ☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri

Polar NRZ-L:



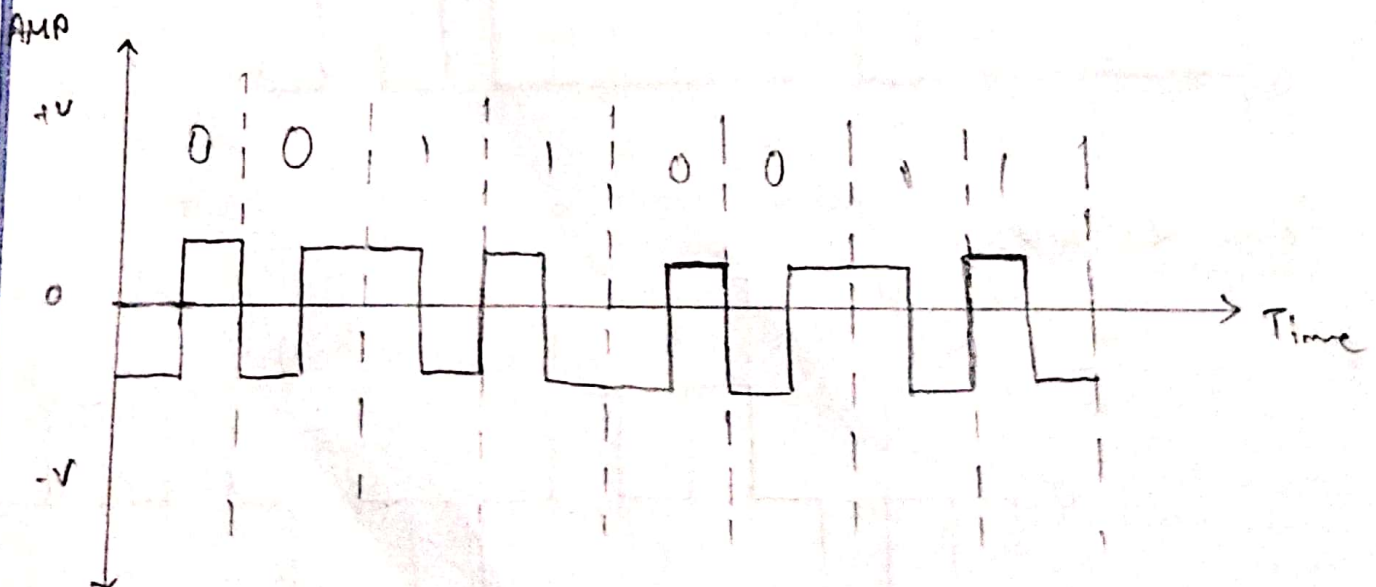
Polar NRZ-I:



○ No inversion: Next bit is 0

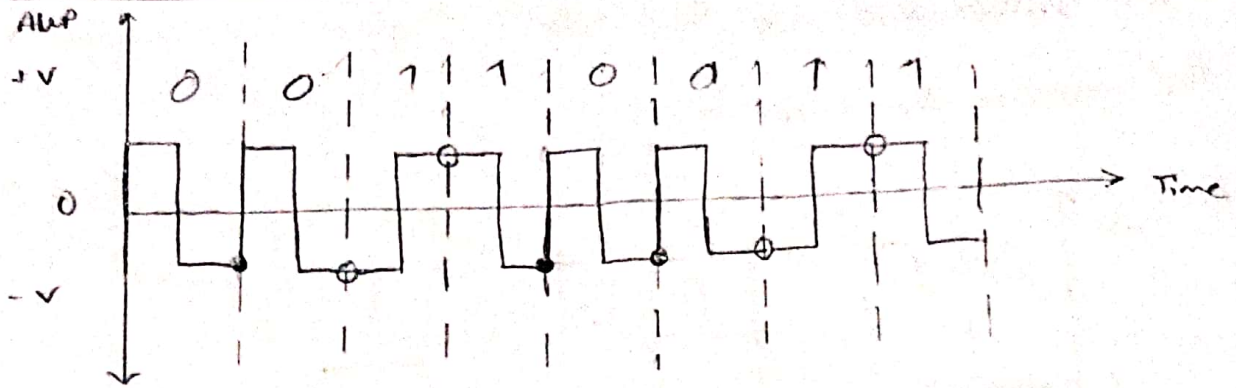
● Inversion: Next bit is 1

iii) Bipolar Manchester: 0 is low to high; 1 is high to low



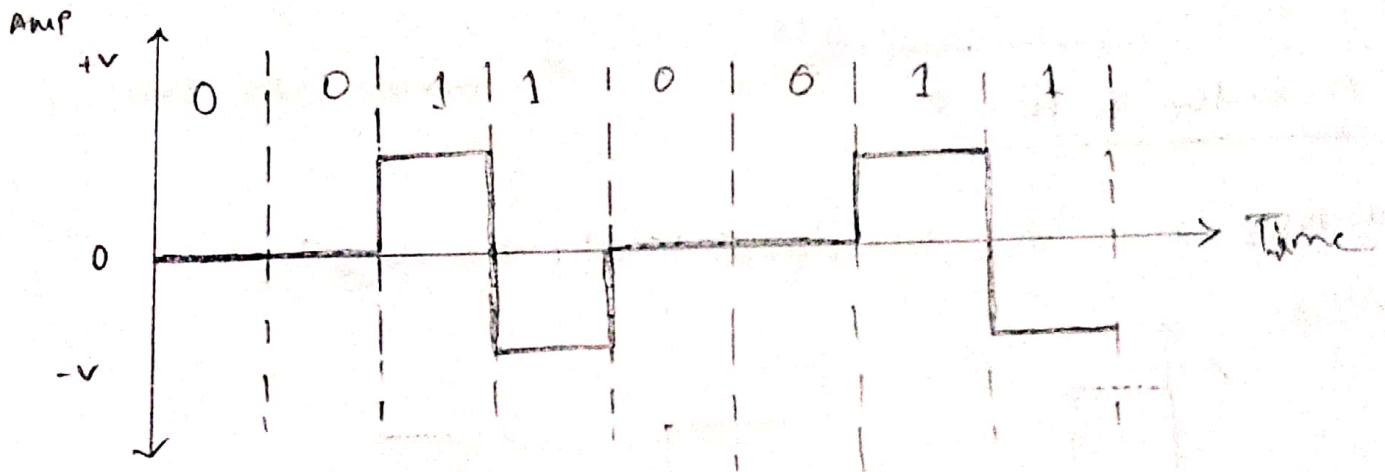
Theme:

Differential Manchester:

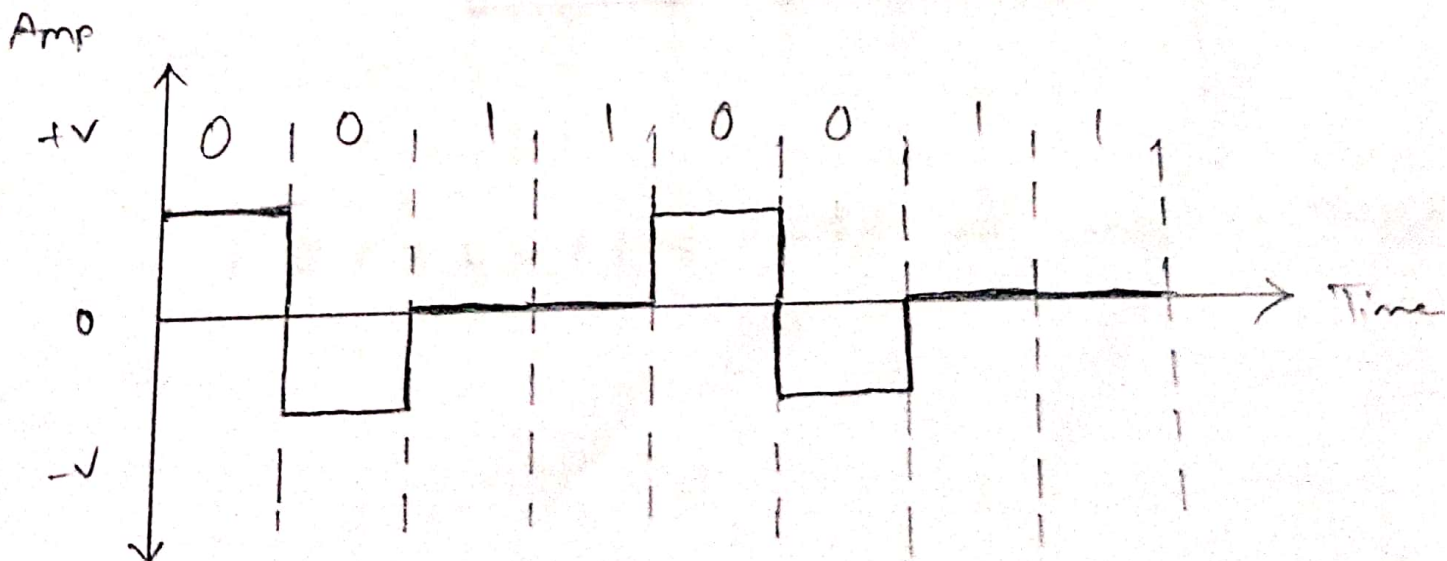


○ No inversion: Next bit 1 ● Inversion: Next bit 0

iv) Bipolar AMI:



Bipolar Pseudoternary:



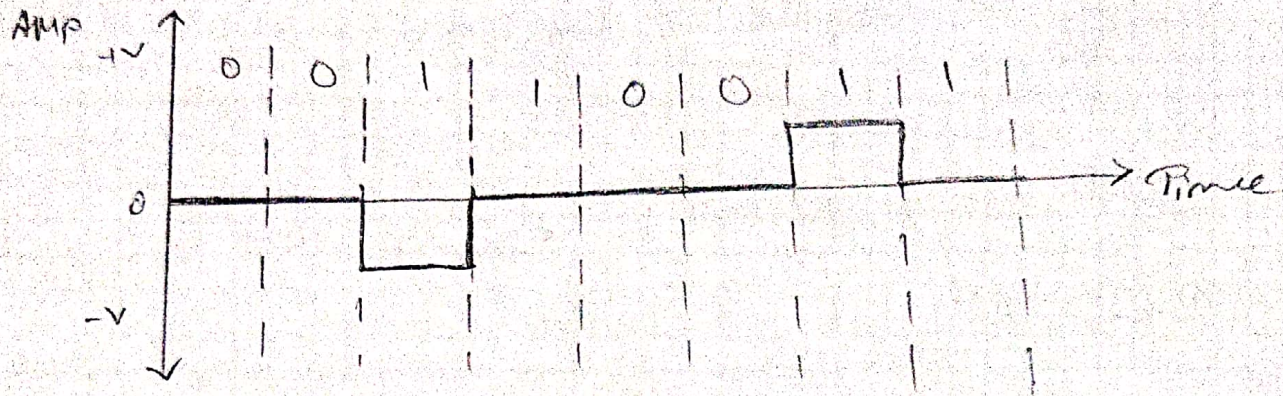
Theme:

Date: / /
☐ Sat ☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri

Multilevel Transmission (MLT-3):

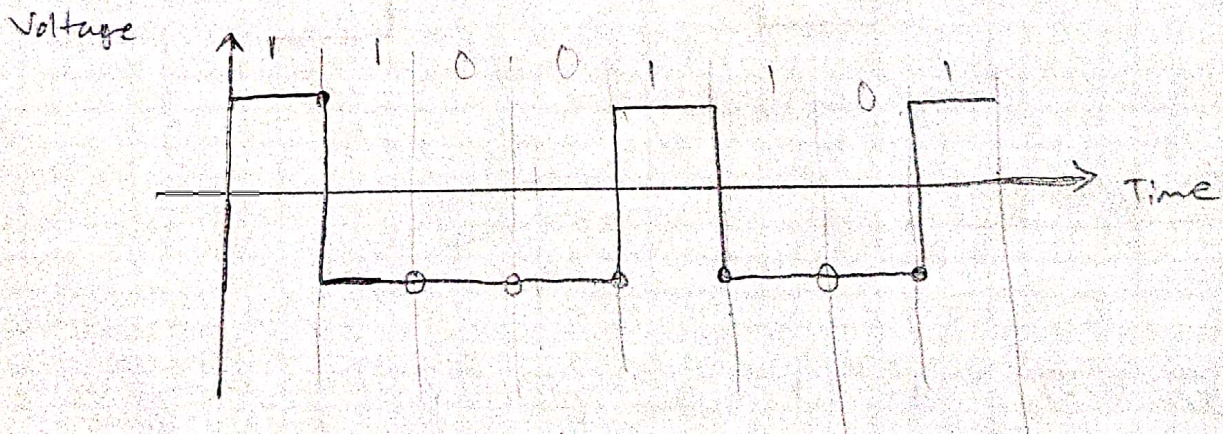
✓ last voltage level was 0

last nonzero level is positive



Ans to the Q. NO-2

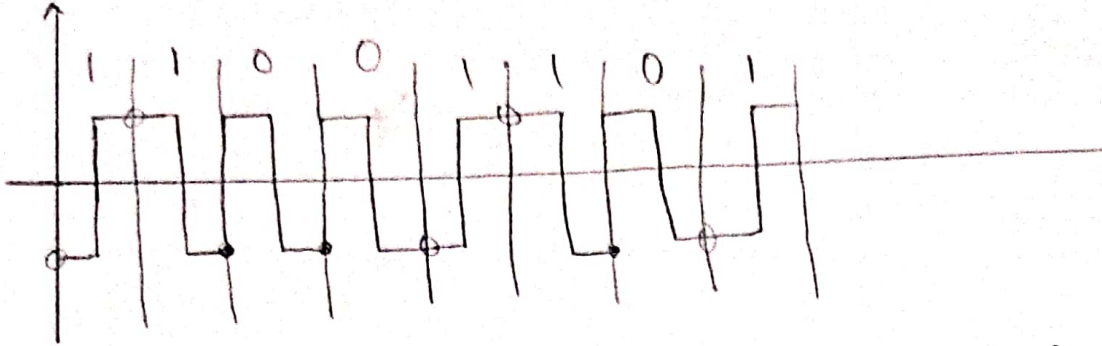
1) NRZ-I the last signal level was negative.



Computed data stream for NRZ-I = 11001101

Theme:

11) Differential Manchester: the last signal level was negative



○ No inversion: Next bit 1 ● Inversion: Next bit 0

Computed data stream for Diff. Manchester is = 11001101