## ID: 180041120 Name: Md Farhon Chman

# Ans. to Q.no. 2

The Nyquist Bit Rute formula is for idealistic noiseless scenarios where the maximum bit-rate is calculated

The formula is

Nonex = 2 × B × log L where B is Burduid H.

Lis no. of signal

Lists

It gives us the theoretical highest bit reate.

Given, highest and lowest signal is 4Hz and 3Hz.

# Ans. to Qino. \$1

The scrambles manipulates the data stream before transmission. I Serrambling is the procedure by which these requesce of data is manipulated and undesinable sequences are removed.

#### (ii)

Bandwidth delay product is the product of data

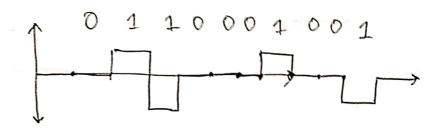
(iii)

Jitter is the time difference of data packets
getting received. Sometimes & Data packets

## Ansto Q. na (1)

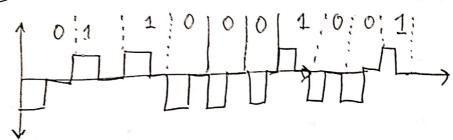


AMR



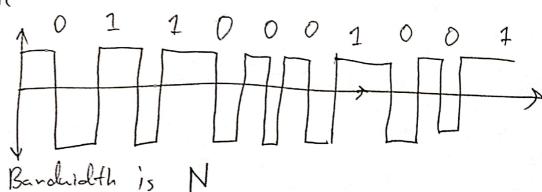
Bardwidth requirement is N/2

Polan RZ

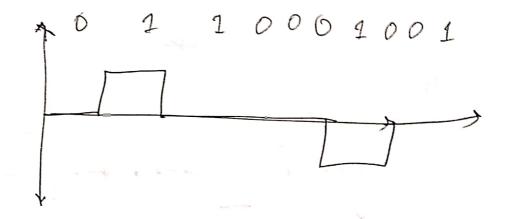


Bandwidth requirement is N

Marchesten

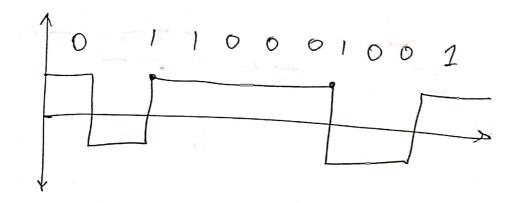


## MLT-3



Bandwidth = N/3

### NRZ-BI



Bandwidth = N/2