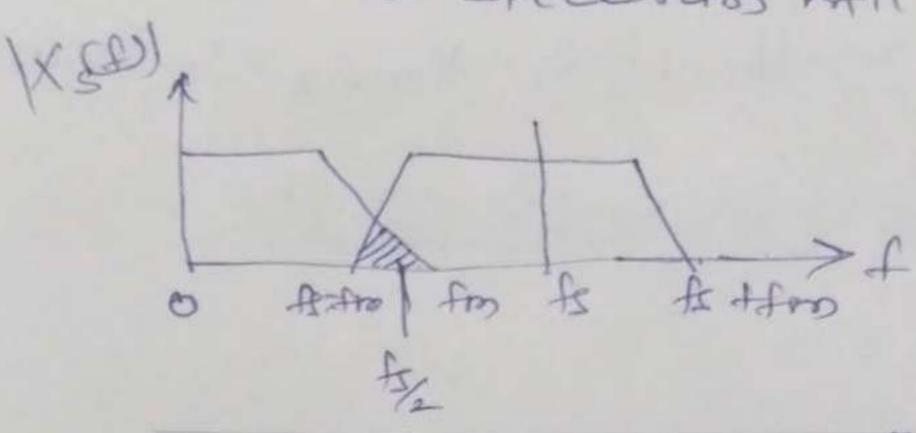
1. It the sampling andition is not root diasing will occur. The spectours will be



2. saropling freer YGE)= 3 cos(50Mb)+10 sin (300Mt) - as (wort)

FI= 25H2, F2=150Hz, F3=50Hz.

sampling treg should be fe >300 Hz.

3. As became of the periodic notine. we can have the frem range from 0 to by.

6. False

C. FRICE

5. Xa(t)= A coc (27ft-+4), -00 LEL00 is continuous-valued

-s A signal takes all possible values on a firmite or) an infriste range is said to be continuous valued.

Devantization step size. m=4, L=16,  $x_{max}=1$ ,  $x_{min}=0$ .  $\Delta = x_{5} = 0.0667$ 

part-B.

8. ADC Technissiques:-

Arrabolist Quantization > coding > ->(2 M)

CT-CV DT-CV DT-CV DT-DV

CT-CV DT-CV COM

CT-CV COM

CT-CV DT-CV COM

CT-CV COM

Explanation of each with or without wave from can be given 8 months.

9. fs > 2 fm: over sampling. -> sampling above the minimum nyquist rete is over sampling.

introduces space in the spectrum.

-> with an example spectron and one can the full mostic.