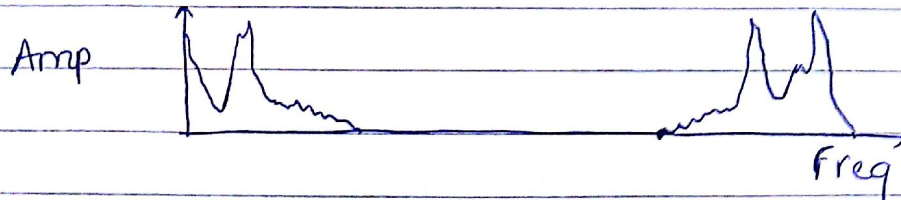
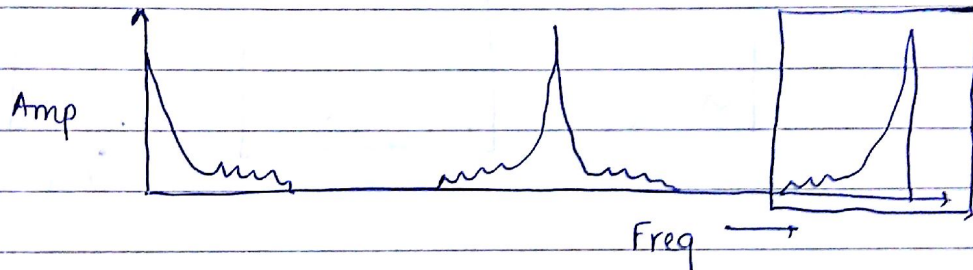


### SECTION - 3

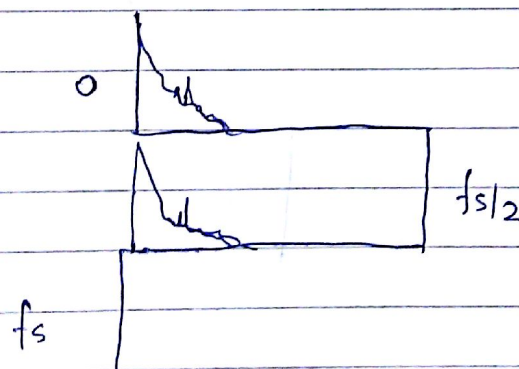
- 4) The spectrum of the signal passed through High Pass Filter is



This shows that only the high frequency components from the original signal are allowed to pass through.

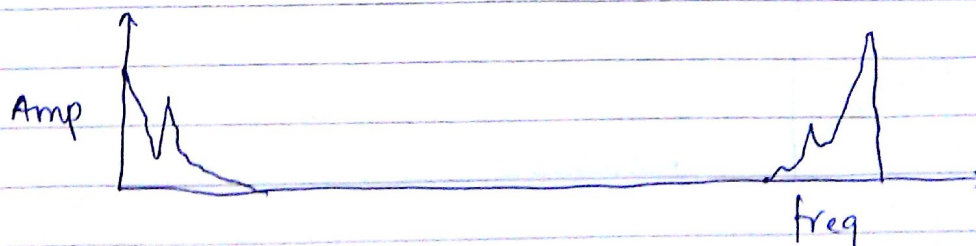


So



Aliasing diagram

So, spectrum becomes



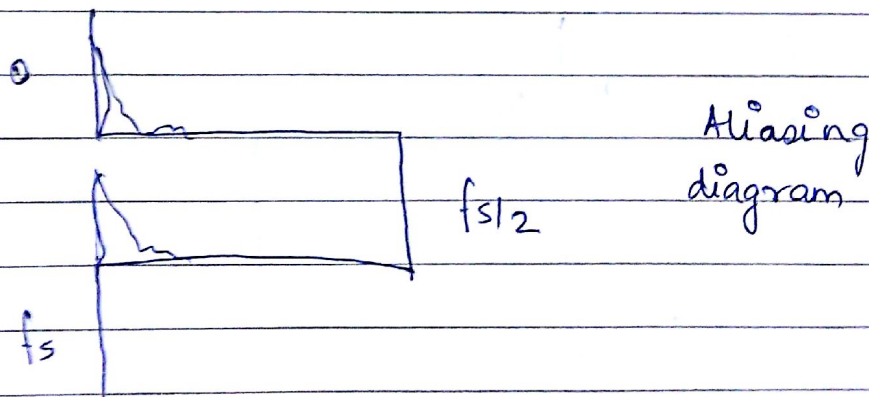
The spectrum of the signal passed through Band Pass Filter is



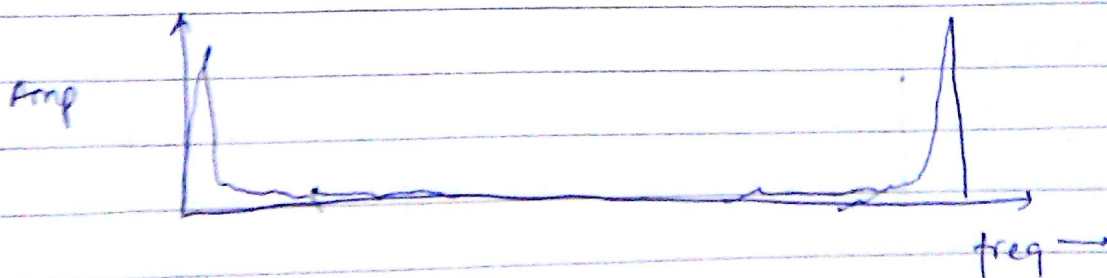
This shows that only the frequencies in the middle of the original signal are allowed to pass through.



So,

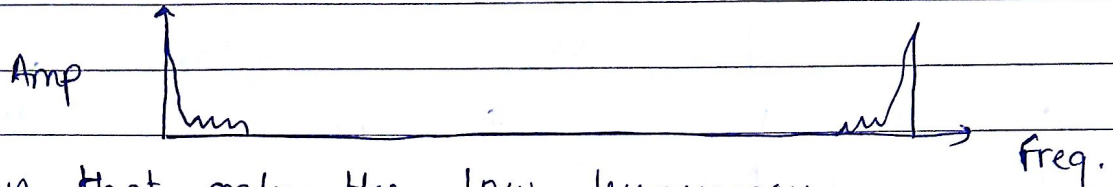


So, spectrum becomes

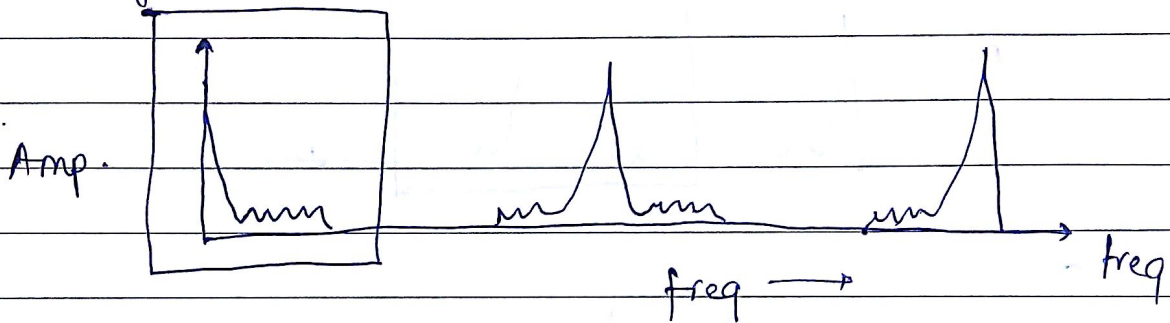




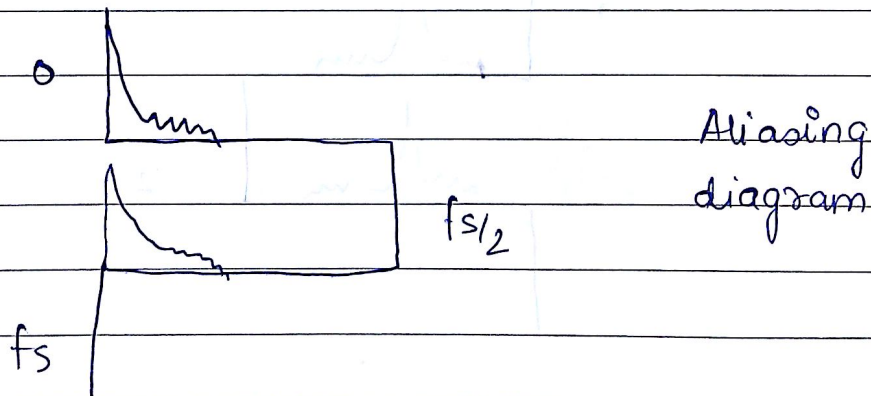
The spectrum of the signal passed through Low Pass Filter is



This shows that only the low frequency components from the original signal are allowed to pass through.



So,



So, spectrum becomes

