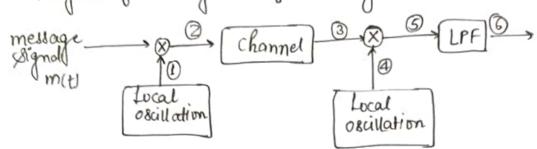
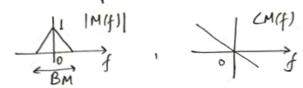
## Av314 - Communication Systems I Assignment-5

AURABH KUMAR SC22B146

1) The signal flow diagram of a DSB system is shown below.

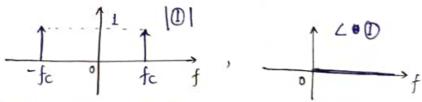


Suppose mit how the spectrum

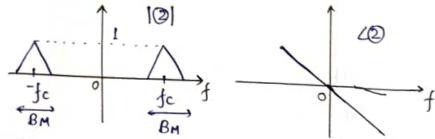


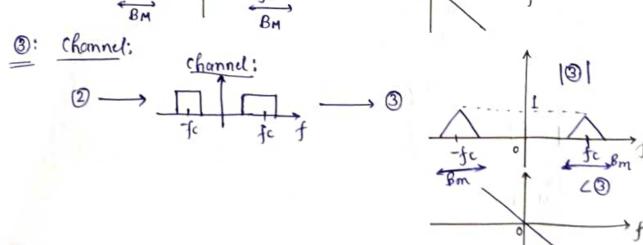
Draw the spectrum of the signals at D, Q, Q, Q, Q and O. If the channel is an ideal BFF centured at for with a bandwidth Bc > 2BM and it is yequired that the signal at O is a Heplica of the signal m(t).

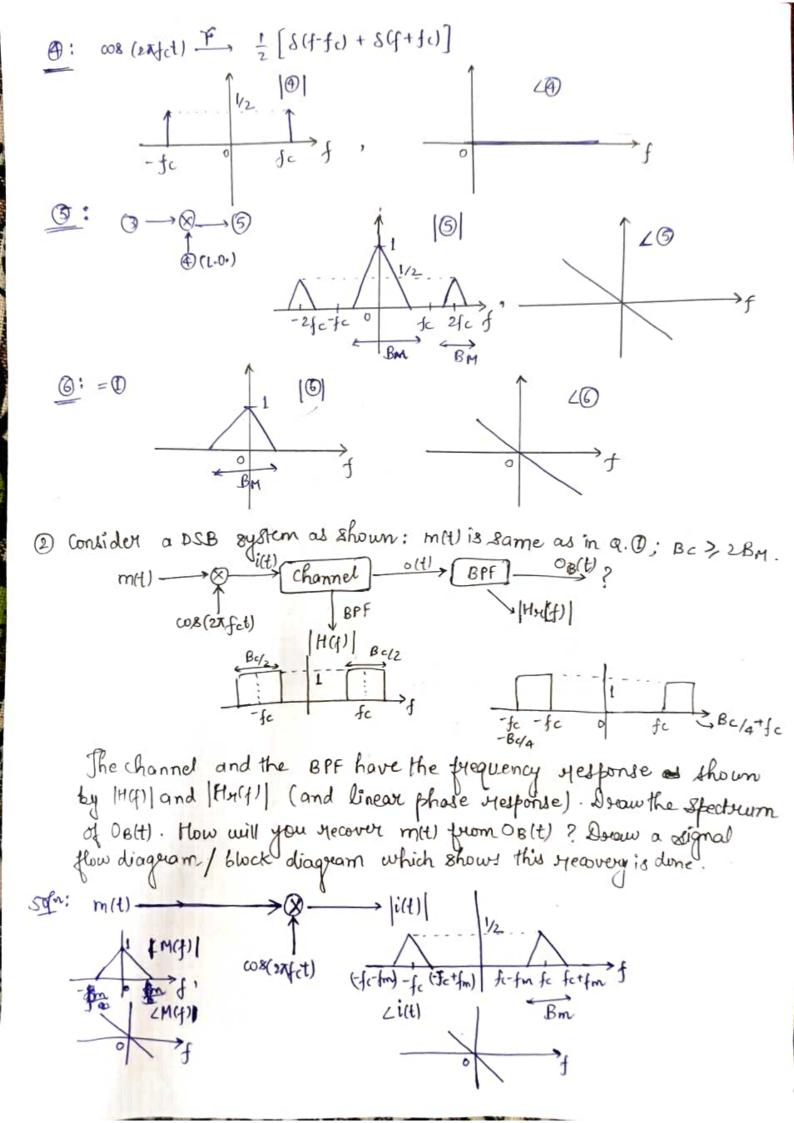
Str: D: [8(f-fc) + 8(f+fc)] + 2008(2xfct)

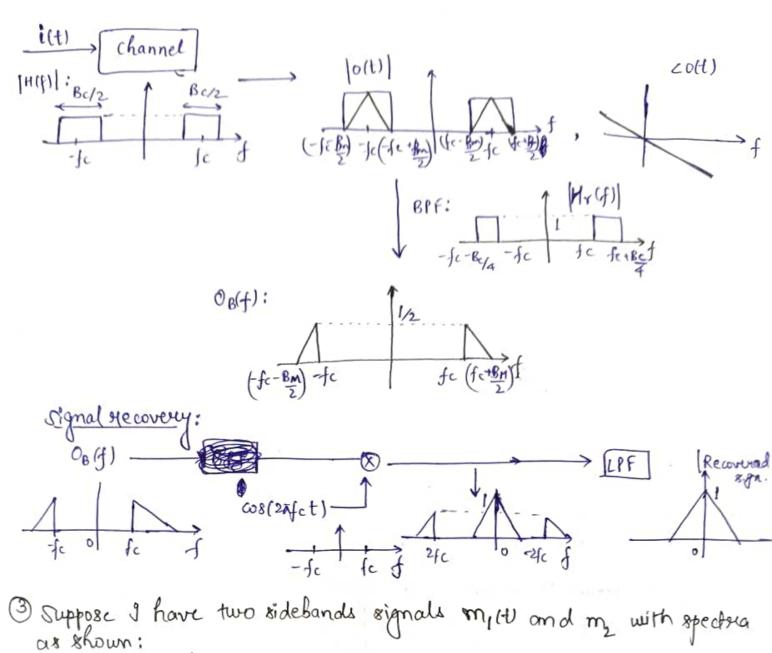


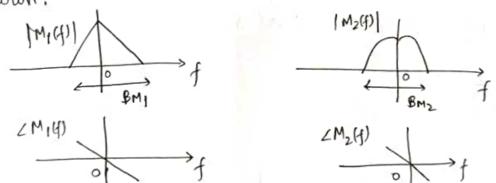
(M (f-fc) + M (f+fc)]











write down the functions (input output map) of the blocks marked by? in the flollowing signal flow diagram. write down what the signals at D. D. B. B. What should be the freq. responses of Band D?

