



Q2:- Ans:- $\omega_c = 2xx10^6$ For Q1, See Book and Notes PEM(+) = 10 cos (wet + 0.1 Sin 2000xt) Assignment 3 Q2 W.C (a) Power:-PEM = 10 = 50 Watts (b) Af:w; (+) = of [we++ 0.1 Sin 2000x+) wi(t)= we + 2007 Sin 2000xt DW = 200 x x (Max value of) AW = 2007 x L DW = 2007 Δf = 200 x = [100 Hz] (C) AP:-Δ9 = (0.1) (Max value of) 10 = 0·1 (d) BEM = 2 (100 + 1000) Bom = 2 (1100) = [2200 Hz]