## EE210: Analog Electronics - Quiz 7

NAME (in capital) Roll No

Time: 15 minutes

1): All transistors in the figures are biased in saturation (biasing network has not been shown). Assume transconductance of M1 is  $g_{m1}$  and that of M2 is  $g_{m2}$ . Neglect CLM.

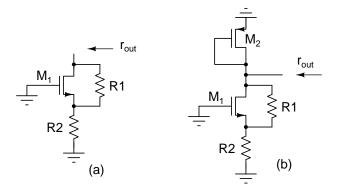


Fig. 1. Problem 1

a): Find the small-signal output resistance as indicated in Fig. (a).

**[6]** 

contd..

b): Find the small-signal output resistance as indicated in Fig. (b).

[4]