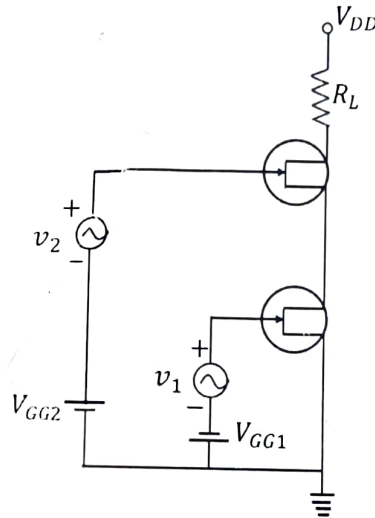


Quiz-2

Course: PH209

Time: 1 Hour

1. a) Why the input impedance of MOSFET is very high? [Marks 1]
- b) Highly doped P^+ regions are constructed at the drain and source end of a N-Channel MOSFET. What are the roles of those regions? [Marks 2]
- c) Find expression for the signal voltage across R_L using small signal equivalent model. Two FETs are identical, with parameters μ , r_d . [Marks 4]



2. Using the concept of feedback, find the small signal voltage gain of the circuit given below. Use simplified h parameter model for the analysis. [Marks 3]

