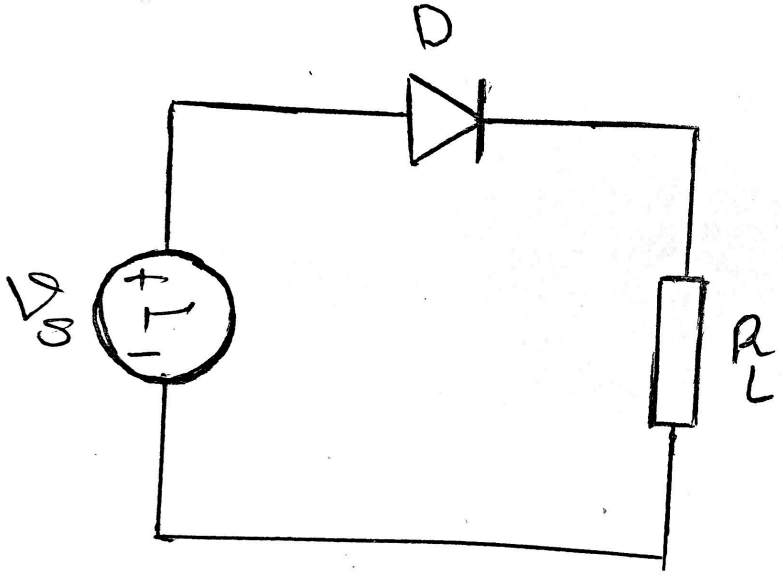

$V_S = 30\,V$

$R_L = 300\,\Omega$

$D = 1N4148$

$C = 20 \times 10^{3}\,\mu F$