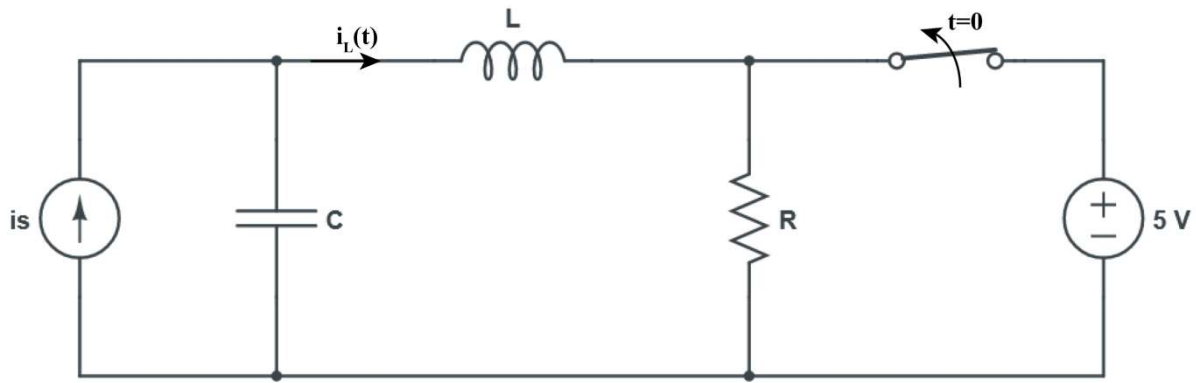


**Upload your answer as a single PDF file at max. 5MB of size.**

For the given circuit switch is opened at  $t=0$  after being closed for a long time.  
 $R=40\text{ Ohm}$ ,  $C=25\text{mF}$ ,  $L=10\text{H}$



- 1) If  $i_s(t) = 10 u(t) A$ 
  - a.  $i_L(0^-) = ?$
  - b.  $i_L(t) = ?$
  
- 2) If  $i_s(t) = e^{-3t} u(t) A$ 
  - a.  $i_L(\infty) = ?$
  - b.  $i_L(t) = ?$