Upload your answer as a single PDF file at max. 5MB of size.
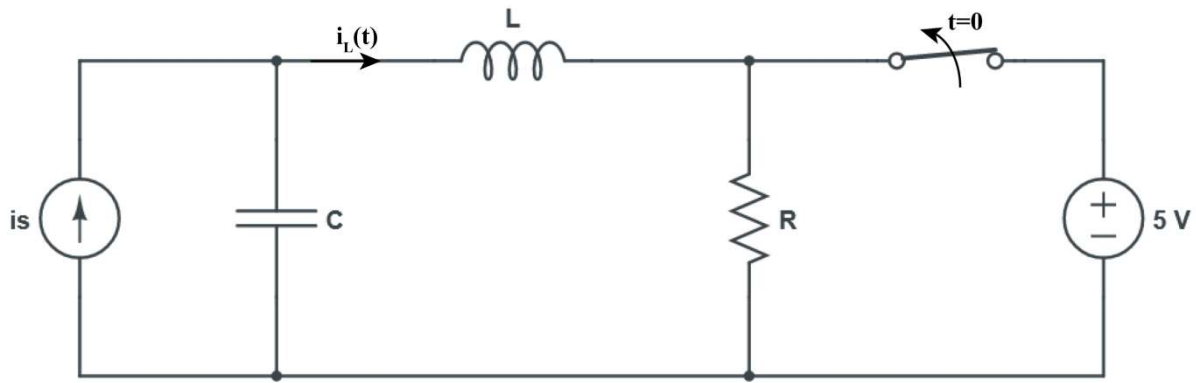
For the given circuit switch is opened at t=0 after being closed for a long time.
R=40 Ohm, C=25mF, L=10H

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. $i_L(t) =?$