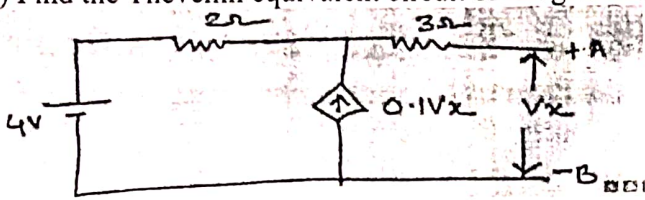


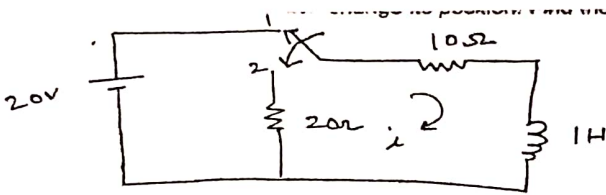


b) Find the Thevenin equivalent circuit of the given network. (7)

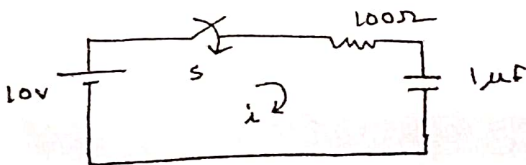


Q3

a) In the network shown in the figure switch is change position 1 to position 2 at  $t=0$ , steady condition reach before switch change its position. Find the value of  $i$ ,  $di/dt$  and  $d^2i/dt^2$  at  $t=0+$ . (8)

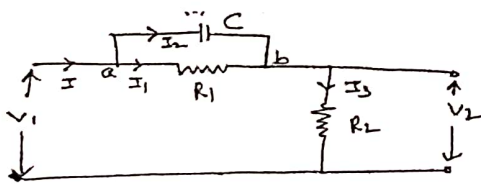


b) In the network shown in the figure switch is close at  $t=0$ . Find the value of  $i$ ,  $di/dt$  and  $d^2i/dt^2$  at  $t=0+$ . (7)



Q4

a) Determine transfer function for the given electrical network where  $v_1$  is input voltage and  $v_2$  is output voltage in time domain. (8)



b) Determine the Z parameters of the given network shown below. (7)

