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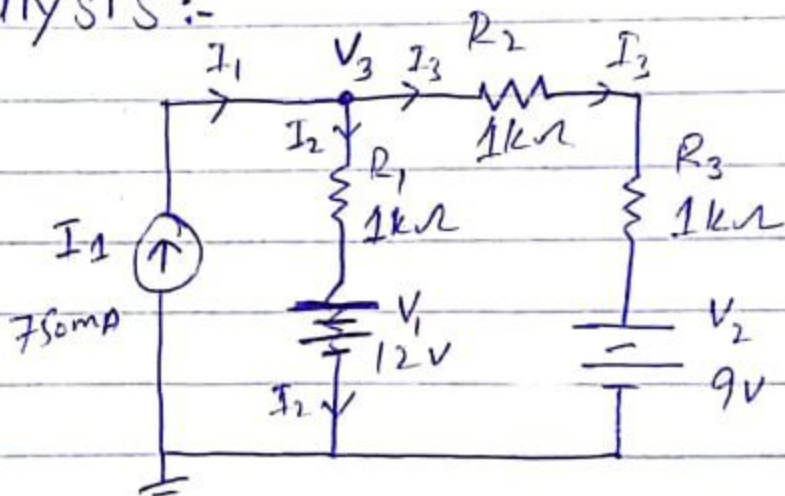
①

(Q#01)

Exam-2.

Nodal Analysis:-

let,
we apply
KCL at
node (V_3).



$$\Rightarrow -I_1 + I_2 + I_3 = 0 \quad \text{put values}$$

$$\Rightarrow -750 \text{ mA} + \frac{V_3 - V_1}{1k} + \frac{V_3 - V_2}{1k + 1k} = 0$$

multiply with 2k on Both sides

$$-1500 \text{ (mA)} + 2V_3 - 2V_1 + V_3 - V_2 = 0.$$