



PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

Verna - Goa

First Year of Engineering

Assignment- II

Semester & Scheme: I (RC 2019)

Date: 16/12/2021

Date of Submission: 04/01/2022

Course: FE 130 BEEE

Course Instructor: Asst. Prof. Shivani Lotlikar

Q. No

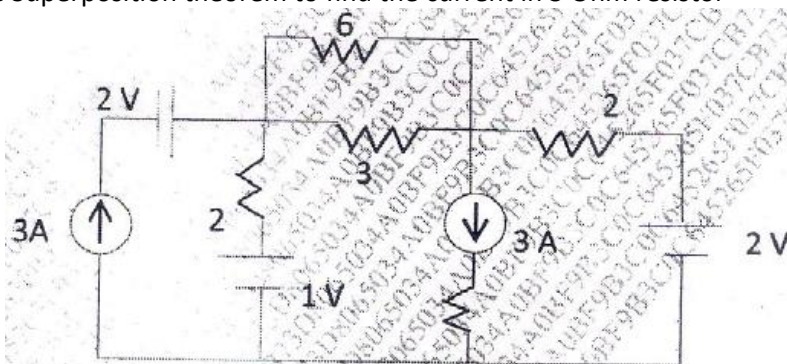
Questions

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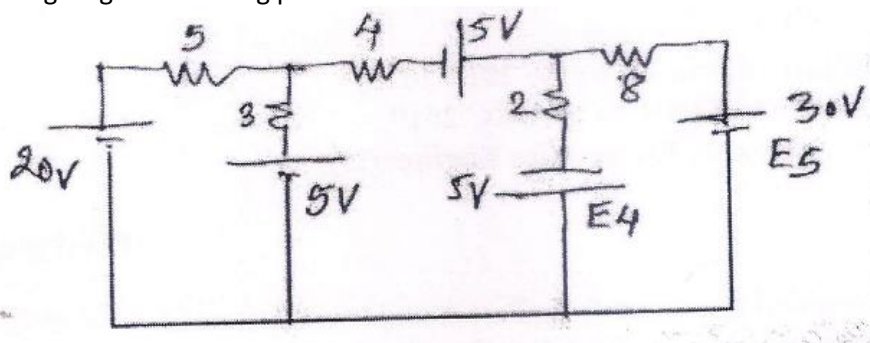
- Q1. Use Superposition theorem to find the current in 3 Ohm resistor

FE 130.2 CL3



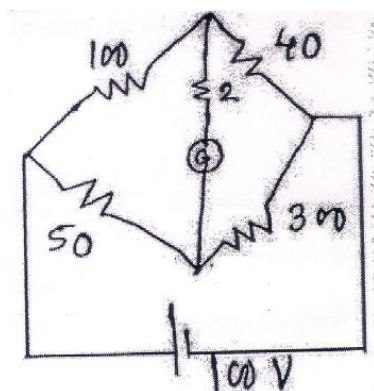
- Q2. Use Loop analysis to find current in 8 Ohm resistor. Find whether battery E4 is giving or absorbing power.

FE 130.2 CL3



- Q3. Use Thevenin's theorem to find current in Wheatstone bridge galvanometer.

FE 130.2 CL3



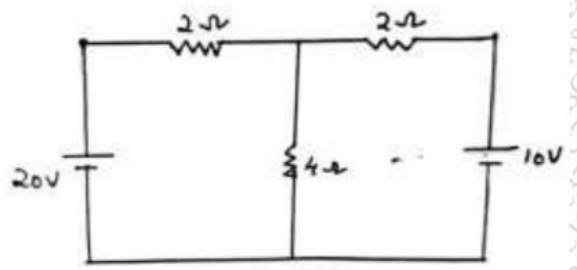


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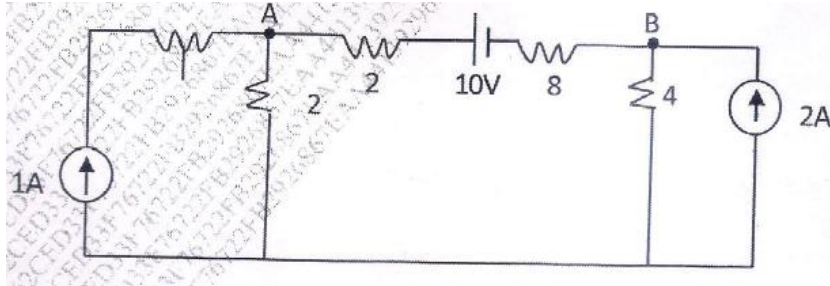
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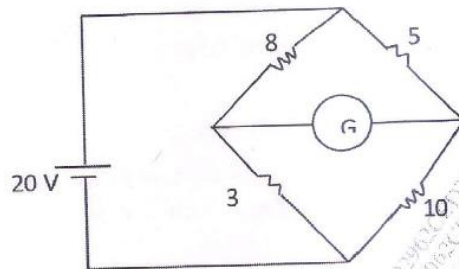
- Q4. Using Superposition theorem, calculate the currents in each branch of the network shown in fig. **FE 130.2 CL3**



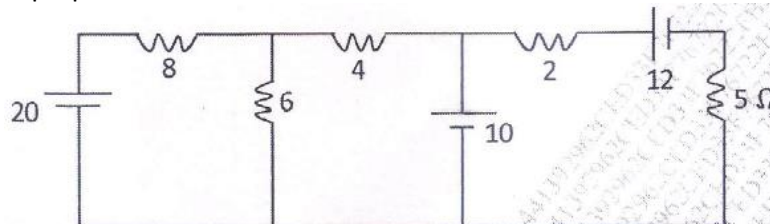
- Q5. Find the node voltages A and B using Nodal Analysis. **FE 130.2 CL3**



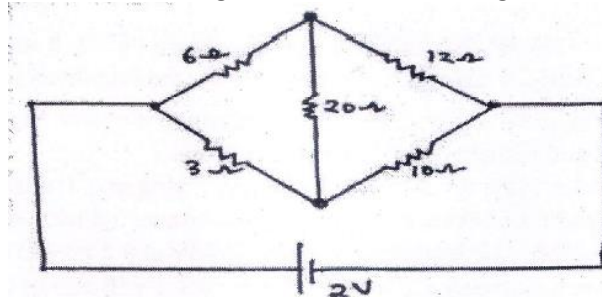
- Q6. Use Thevenin's theorem to find current in the Galvanometer. ($R_g = 2$ Ohms) **FE 130.2 CL3**



- Q7. Use Superposition Theorem to find current in 5 Ohm resistor **FE 130.2 CL3**



- Q8. Determine the current through 20 Ohm resistor using Thevenin's Theorem **FE 130.2 CL3**





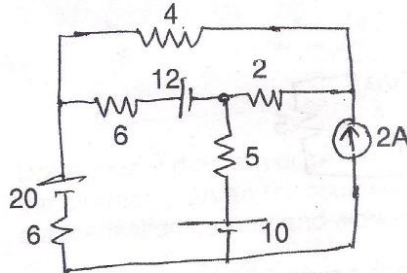
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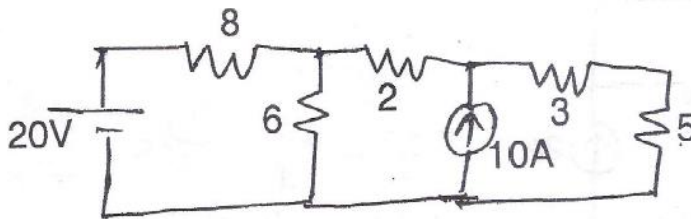
Q9. Use Nodal Analysis to find current in the circuit.

FE 130.2 CL3



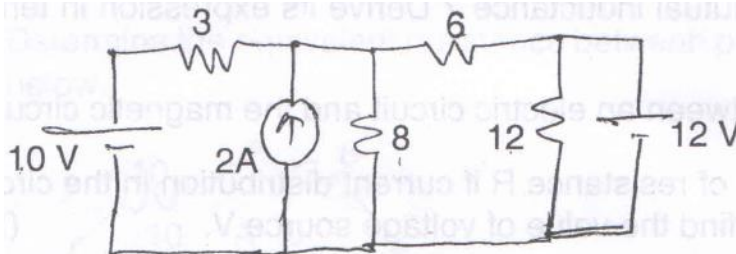
Q10. Use Superposition Theorem to find current in 5 Ohm resistor.

FE 130.2 CL3



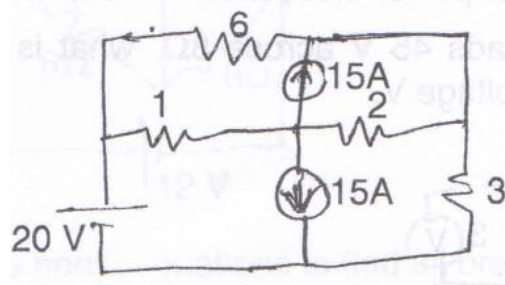
Q11. Use Nodal Analysis to find the branch currents.

FE 130.2 CL3



Q12. Use Superposition Theorem to find current in 2 Ohm resistor.

FE 130.2 CL3



Q13. Calculate the Node Voltage.

FE 130.2 CL3

