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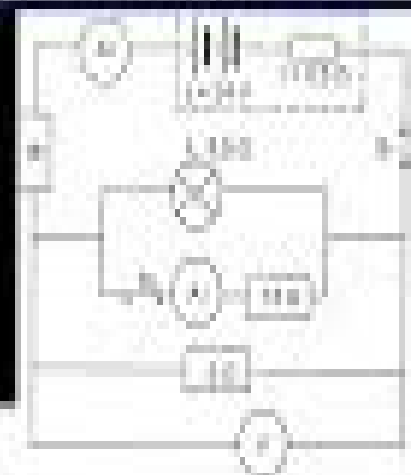
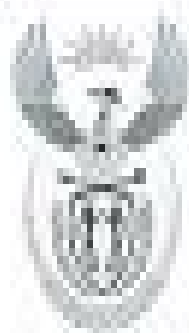
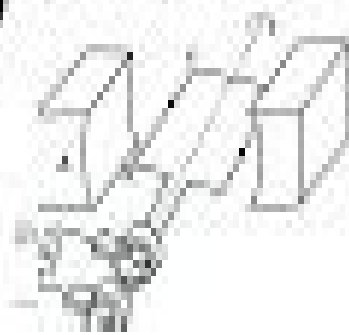


Figure 1 is a circuit diagram used for Question 1. The circuit is connected with the switch S closed.

- 1.1 (4 marks)
- 1.1.1 Calculate the potential difference across the voltmeter V.
- 1.1.2 Calculate the current through the 12 Ω resistor in the voltmeter V₂ branch.



- 2.1 (4 marks)
- 2.1.1 Calculate the force F.
- 2.1.2 Calculate the torque due to the weight about the pivot.



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