

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025



Figure 1: A circuit with two parallel branches. The battery has an EMF of 12 V and an internal resistance of 1 Ω. A switch S is in series with the battery. A voltmeter V is connected in parallel across the battery terminals. The first parallel branch contains a 4 Ω resistor and an ammeter A<sub>1</sub> in series. The second parallel branch contains an ammeter A<sub>2</sub> in series with a parallel combination of a 10 Ω resistor and a 15 Ω resistor. A voltmeter V<sub>2</sub> is connected in parallel across the 15 Ω resistor.

- 1.1 (4 marks)
- 1.1.1 Calculate the potential difference across the voltmeter V.
- 1.1.2 Calculate the current through the 15 Ω resistor.



- 2.1 (2 marks)
- 2.1.1 Calculate the magnitude of the force F.
- 2.1.2 Calculate the torque due to the weight about the pivot.



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# Memo Physical Science Grade 12 Nov14

**RJ Shavelson**



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