

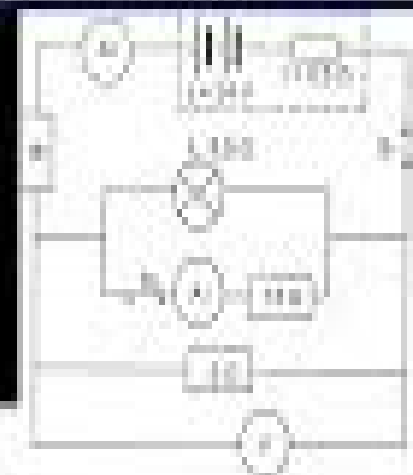
PHYSICAL SCIENCES

PAPER 1

MAY-JUNE

MEMO

2025

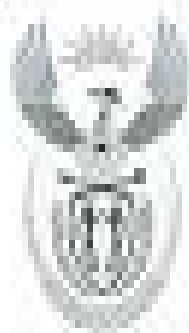
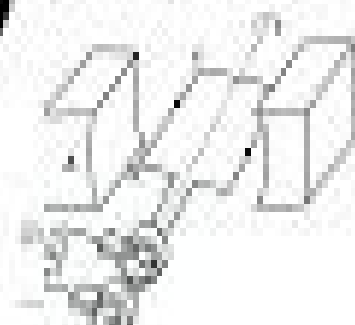


1. (4 marks)
- 1.1 Calculate the potential difference across the voltmeter V .
- 1.2 Calculate the current through the 15 Ω resistor.

Figure 1 shows a circuit with a battery of EMF 12 V and internal resistance 1 Ω. The circuit is connected to a switch S and a voltmeter V. The circuit is connected to a parallel combination of two branches. The first branch contains a 4 Ω resistor and an ammeter A_1 in series. The second branch contains an ammeter A_2 in series with a parallel combination of a 10 Ω resistor and a 15 Ω resistor. A voltmeter V_2 is connected in parallel across the 15 Ω resistor.



2. (4 marks)
- 2.1 Calculate the magnitude of the force F .
- 2.2 Calculate the magnitude of the torque about the pivot.



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**United States. Atlantic-Pacific
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NASA Technical Memorandum ,1994 Mathematical Modeling in Physical Sciences Dimitrios Vlachos,2024-05-23
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