

PHYSICAL SCIENCES

PAPER 1

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Figure 1 is a circuit diagram used for Question 1. The voltmeter is connected in parallel with the battery.

1.1 (1 mark)
State the meaning of potential difference (voltage).
Answer: The difference in electric potential between two points in a circuit, which is the work done per unit charge in moving the charge between the points.



- 2.1 (1 mark) Calculate the moment of the force F about the pivot.
2.2 (2 marks) Calculate the magnitude of the force F required to keep the beam in equilibrium.



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