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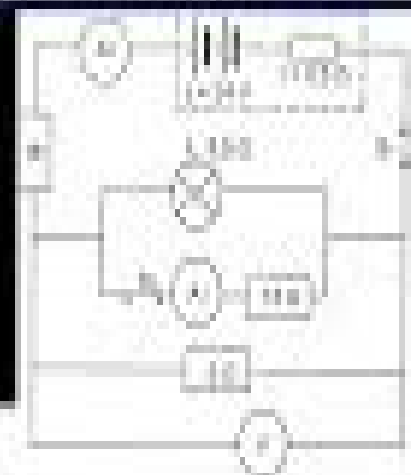
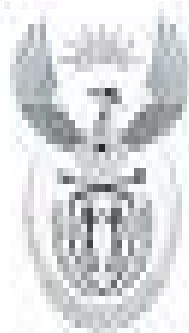
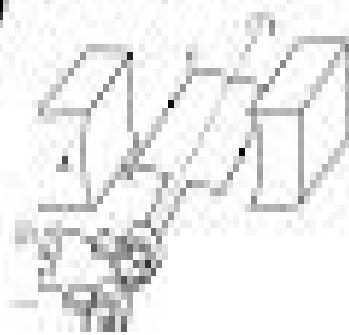


Figure 1 is a circuit diagram used for Question 1. The voltmeter is connected in parallel with the battery.

1.1 (1 mark)
State the meaning of parallel connection of components.
Answer: When two or more components are connected in such a way that the current can flow through more than one path.



- 2.1 (1 mark) Calculate the moment of the weight 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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