

Each candidate will require the following:

Question 1

1. Micrometer screw gauge (may be shared)
2. Centre zero galvanometer
3. Constantan resistance wire of diameter 0.27 ± 0.02 mm and length 52.0 cm mounted on a half metre rule labelled N
4. Nichrome resistance wire of diameter 0.37 ± 0.02 mm and length 52.0 cm mounted on a half metre rule labelled Q
5. Any resistance wire labelled Y of length 102.0 cm mounted on a metre rule with the ends marked A and B
6. 10 Ω carbon resistor labelled R
7. Jockey
8. Switch
9. Ten connecting wires with at least four having a crocodile clip at one end
10. One new size D dry cell in a cell holder

Question 2

1. Micrometer screw gauge (may be shared)
2. Weighing balance (may be shared)
3. Half meter rule
4. Stop watch
5. Piece of candle approximately 6 cm long
6. Piece of **white** strong sewing thread approximately 30 cm long
7. Some tissue paper
8. Plastic drinking straw of diameter approximately 5.0 mm and length approximately 25.0 cm
9. Seven (7) steel balls each of diameter 0.38 ± 0.02 mm placed in a 50 ml beaker
10. 100 ml of water in 100 ml glass measuring cylinder labelled W
11. 250ml glass measuring cylinder filled with pure glycerine to the brim labelled L
12. Match box (may be shared)

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