

232/3  
Physics Paper 3  
Practical

**CONFIDENTIAL**

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**Each candidate will require the following apparatus.**

**QUESTION 1**

- Stop watch.
- Metre rule.
- A pendulum bob on a string with marked length = 1.5m (Put a mark with mark pen making pendulum length 1.5m).
- Wooden plank of length at least  $\frac{1}{2}$  m with a small nail at its centre not completely driven into wooden plank.
- 2 complete retort stands with table or stool underneath making a combined height at least 1.5m.

**QUESTION 2**

- White screen.
- Candle.
- Convex lens of approx  $f = 20\text{cm}$  and lens holder.
- An ammeter (0 – 1.0A).
- A resistant wire SWG 22 mounted on a metre rule and labelled P.
- Four connection wires (2 with crocodile clips at one end).
- Switch.
- Micrometer screw gauge.
- One size D new dry cell.