

TERM 2 - 2023  
PHYSICS  
FORM FOUR (4) – 232/3  
**CONFIDENTIAL**

**INSTRUCTIONS TO THE PHYSICS TEACHER:**

The physics teacher should plan with school management to ensure availability of the following apparatus for the learner to carry-out this practical examination.

Each candidate to be provided with the following apparatus:

**QUESTION ONE:**

- An ammeter (0 -1 A)
- Voltmeter (0 - 3 V)
- Two new dry cells (size 'D')
- Cell-holder
- Variable resistor (0 -100  $\Omega$ )
- Connecting wires
- Switch

**QUESTION TWO**

- Complete retort stand
- Cork
- Optical pin (for suspending the cardboard)
- Stop-watch
- Half-metre rule
- Knife-edge
- Rectangular Cardboard (40cm by 5 cm by 0.5cm)
- A thermometer (range:  $-10^{\circ}\text{C}$ -  $110^{\circ}\text{C}$ )
- A 250 ml beaker
- Measuring cylinder (should be able to measure at least 200 ml)
- Retort stand, clamp and boss
- Stop watch
- Source of boiling water or Bunsen burner
- Some tissue paper

**This is the last printed page.**