



## HOIMA DIOCESE EXAMINATIONS BOARD

Uganda Certificate of Education, Mock Examination

### PHYSICS PRACTICAL INSTRUCTIONS

Paper 535/3 Inst.Sch.

#### CONFIDENTIAL INFORMATION

Great care must be taken so that the information given herein does not directly or indirectly reach the candidates.

#### INSTRUCTIONS FOR PREPARING APPARATUS

The candidates will be instructed **not** to write out a detailed description of the apparatus. But the teacher responsible for preparing the apparatus must give details on the report form attached. The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and the Headteacher.

**NOTE:** The Headteacher **must** ensure that the teacher responsible for preparing the apparatus submits his/her trial results properly sealed in a separate envelope and **firmly** fastened (attached) to the candidates' script envelope(s).

In addition to the apparatus ordinarily contained in the Physics laboratory, each candidate will require:

**Question 1**

- 1 retort stand with a clamp.
- 1 metre rule.
- 1 **20 g** mass hanger.
- 1 pendulum bob.
- 1 piece of white knitting thread of length of about 150 cm.
- 1 stop clock/stop watch.
- 4 **20 g** standard slotted masses.
- 1 **100 g** standard slotted mass.
- 1 **100 ml/50 ml** measuring cylinder.
- 1 complete, empty, 500 ml, plastic Rwenzori mineral water bottle.

**Question 2**

- 1 clean smooth soft board.
- 1 sheet of plain white paper (A4-type).
- 1 mounted plain mirror of length about 15 cm.
- 4 optical pins.
- 4 drawing pins (4 short pieces of masking tape will do).
- 1 complete mathematical set.
- 1 glass block (of about 11.5 cm by 6.0 cm by 2.0 cm).

**Question 3**

- 1 metre rule.
- 1 ammeter (**0 – 1 A**).
- 1 **110 cm** of a piece of constantan wire SWG 28, labelled *W*.
- 1 safety pin (large China-type).
- 1 **5  $\Omega$**  standard resistor.
- 1 voltmeter (**0 – 3 V/0 – 5 V**).
- 4 crocodile clips.
- 2 pieces of masking tape each about 15 cm long.
- 10 pieces of connecting wires each about 50 cm long.
- 2 fresh dry cells (size D) in a holder.
- 1 switch labelled *K*.