

**P510/3 Inst. Sc.**  
**PHYSICS**  
**PRACTICAL**  
**July/August 2015**



## **WAKISSHA JOINT MOCK EXAMINATIONS**

**Uganda Advanced Certificate of Education**

**PHYSICS**

**Paper 3**

### **CONFIDENTIAL:**

**Great Care should be taken that the information given below does not reach the candidates either directly or indirectly.**

The candidate 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) about some of the items of apparatus he/she supplied. This form should be signed by the invigilator, the teacher responsible for preparing the apparatus and Headteacher.

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

## REQUIREMENTS

### Question 1

- **One** metre rule
- **One** half metre rule
- **One** optical pin (to be used as a pointer)
- **One** small piece of cellotape
- **One** G-clamp
- **One** small wooden block (for clamping the metre rule on the table)
- **One** piece of thread (about 20cm long)
- Retort stand with a clamp.
- **One** knife edge
- Slotted masses (One 20 g mass, one 50 g mass and one 100g mass)
- **One** vernier caliper and one micrometer screw gauge.

### Question 2

- **One** convex lens ( $f = 15\text{ cm}$ )
- **Two** optical pins.
- **Two** pin holders (either a piece of cork or rubber bung)
- **One** white screen with two vertical parallel bold lines drawn 1 cm apart in the middle of the screen. (One of the lines should have an arrow on its upper end. The lines should be about 2 cm long.)
- **One** metre rule.
- **One** half metre rule.
- **One** retort stand with a clamp.

### Question 3

- **Ten** pieces of connecting wires (about 50cm long)
- **One** slide wire potentiometer.
- **One** jockey (sliding contact).
- **Three** fresh dry cells (1.50 V)
- **Two** switches labeled  $K_1$  and  $K_2$
- **Two** pieces of cellotape
- **One** Constantan wire SWG 28 labeled W
- **One** single cell holder and 1 double cell holder.
- **One** centre zero galvanometer
- **One** metre rule
- **Two** crocodile clips.
- **One** voltmeter (0 - 3 V)
- **One** ammeter (0 – 1 A)

**END**

**This form must be completed and returned with the scripts.**

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**Uganda Advanced Certificate of Education**

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**REPORT ON PHYSICS PRACTICAL P510/3**

Section I:

Any information which the teacher responsible for preparing the apparatus thinks may be useful to the examiners should be given on this sheet. The teacher must try all the questions and submit his/her results in the space provided below to guide the examiners about the apparatus and concentrations of the chemicals used.

[NB: Teachers who DO NOT submit their trial results will be held responsible for the candidates' performance].

Results:

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## Section II:

The invigilator, in consultation with the teacher responsible for preparing the apparatus, should give details below of any difficulties experienced by particular candidates, giving their names and index numbers. These should include reference to:

- (a) difficulties due to faulty apparatus,

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- (b) accidents to apparatus or materials,

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- (c) physical handicaps of candidates,

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- (d) any other information.

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Other cases of hardship e.g. illness, disability, should be reported directly to the Examinations Committee in the normal way.

A plan of work benches, giving details by index numbers and or names of the places occupied by the candidates for each session, must be enclosed with the scripts.

Name..... Signature.....  
(Invigilator)

Name..... Signature.....  
(Teacher responsible for preparing apparatus)

Name..... Signature.....  
(Head teacher)

School name: .....

Reference number: .....

**Stamp and Date**

**END**