

This document must not be seen by the candidates whatsoever

CONFIDENTIAL INSTRUCTION TO SCHOOLS

1. The information contained in this paper is to enable the head of the school and the teacher in charge of physics to make adequate preparation for this years' physics practical examination. NO ONE ELSE should have access to this paper or acquire knowledge of its contents. Great care MUST be taken to ensure that the information herein does not reach the candidates either directly or indirectly.
2. The apparatus required by each candidate for the physics practical examination are set out on page 2. It is expected that the ordinary apparatus of a physics laboratory will be available.
3. The physics teacher should note that it is his/her responsibility to ensure that each apparatus acquired for this examination agrees with the specifications on page 2.
4. The questions paper will not be opened in advance.
5. The physics teacher is not expected to perform the experiments

NB Any use of apparatus other than the ones specified may lead to candidates being penalized.

Question 1

Each candidate will require the following:

- Two pieces of wooden blocks (2cm x 2cm x 1cm)
- A retort stand, boss and clamp
- A vernier calipers
- A glass marble of diameter, d measuring about 1.56cm
- A piece of cotton thread of length 2m
- A half metre rule
- A 20grammes metal mass with a hook
- Some distilled water
- A 250ml beaker (glass or plastic)
- Some tissue paper
- A square piece of light polythene paper measuring 4cm x 4cm. (teacher to use paper punch to make holes at the four corners)



Question 2

Each candidate will require the following:-

- A soft board
- Two white plain papers
- Four optical pins
- A plane mirror labelled **X** at left corner and **Y** at right top corner. The mirror is mounted using plasticine on a wooden block support. (the mirror should measure atleast 10cm by 5cm)
- Four drawing pins (or some plasticine)
- A protractor