

231/3
PHYSICS
PAPER 3
PRACTICALS

CONFIDENTIAL INSTRUCTIONS TO SCHOOLS

-The information contained in this paper is to enable the head of school and teacher in charge of physics to make adequate preparations for this year's physics mock 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.

-The physics teacher is NOT expected to perform the experiments

- The apparatus required by each candidate for the physics mock practical examination are set out on the next page. It is expected that the ordinary apparatus of a physics laboratory will be available.

- The physics teacher should note that it is his/her responsibility to ensure that each apparatus acquired, for this examination agrees with specifications on the next page.

QUESTION 1

Each candidate will require the following

- A triangular card, isosceles of base about 6cm and height 12.0cm, made from a manila paper. The base is to be marked QR and the apex is to be marked P
- A glass/plastic beaker of volume 500ml or 600ml
- A straight piece of wire preferably from single core 2.5mm² of length equal to $(d+4)$ cm where d is the maximum diameter of the vessel. The wire must be straightened
- Two strips of cello tape or masking tape
- A complete mathematical set
- Milimetre scale at least 15cm long
- A stop-watch
- An optical pin

QUESTION 2

- Three size D dry cells
- One bulb (3.8V, 0.3A) Eveready bulb
- Voltmeter (0.3V or 0.5V)
- Ammeter (0-1A)
- A mounted Nichrome wire on a millimeter scale. (Gauge 30 on the 0 mark the teacher to label A and on the 100 mark B)
- A switch
- Seven connecting wires, at least two with crocodile clip
- A micrometer screw gauge (to be shared)

