

232/3
PHYSICS
PAPER 3
PRACTICAL

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.

Questions one

Provide each candidate with the following apparatus.

- One resistor (carbon resistor) labeled R
- A wire (nichrome SWG 28) mounted on a millimeter scale – 100cm, labeled W.
- A wire (Nichrome SWG 32) mounted on a millimeter scale 50m, labeled S.
- One dry cell (1.5V) and a cell holder
- One jockey
- One centre zero galvanometer
- Eight connecting wires, four with crocodile clips at both ends.
- A micrometer screw gauge (to be started)
- A switch
- One rectangular glass block (crown or flint glass of dimensions – approximately 10cm x 6cm x 2 cm
- Four optical pins
- A piece of soft board approximately A4 size
- A plain sheet of paper (white)
- Four thumb tacks

Questions two

- Two meter rules
- Two stands , two bosses and two clamps
- Three pieces of thread at least 30cm long.
- One optical pin
- A piece of cellotape (6cm long)
- A spring (spring about 5cm long and spring diameter of about 1.2cm)
- One mass of 200g
- One stop watch
- Length 10cm
- One lens holder
- One biconvex labeled P of focal length 10cm
- A white screen
- A 30 cm ruler.