

# LARI SUB- COUNTY JOINT EXAMS

## Physics Confidential Instructions

231/3

PHYSICS

PAPER 3

PRACTICALS

JULY /AUGUST 2019

### 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 this page as shown below. 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 as outline below.

### 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 1000ml
- A straight piece of wire preferably from single core  $2.5\text{mm}^2$  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

- Two size D dry cells
- One bulb (3.0V, 0.3A)
- Voltmeter (0 - 3V or 0 - 5V)
- Ammeter (0-1A)
- A mounted Nichrome wire (Gauge 28) on a millimeter scale labeled A on the Zero mark and on the 100 mark B)
- A switch
- Seven connecting wires, at least two with crocodile clip
- A micrometer screw gauge (to be shared)
- Jockey