

# SAMIA SUB-COUNTY JOINT EVALUATION EXAMS

232/3 PHYSICS

PAPER 3 PRACTICAL

DECEMBER 2021

## 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 joint 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 joint practical examination are set out on this 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 this page.

### Question 1

*Provide each candidate with the following apparatus.*

- A metre rule
- A spring balance
- A mass of 200g (2N) with a hook or (two 100g masses)
- A complete retort stand
- Knife edge support atleast 10cm high
- Two light strings about 10cm long.

### Question 2

- Two new dry cells
- Cell holder
- 10 ohms resistor labeled Q
- 100cm of nichrome wire SWG 28 labeled AB at the ends mounted on a millimeter scale
- 6 connecting wires, atleast 3 with crocodile clips
- A voltmeter (0 – 5v)
- An ammeter (0 – 1A) of (0 – 2.5A)
- A switch
- A candle
- A lens of focal length 20cm and a lens holder
- A white screen
- A metre rule