

**CONFIDENTIAL**

**Kenya Certificate of Secondary Education(KCSE)**

**INSTRUCTIONS TO SCHOOLS**

1. The information contained in this paper is to enable the head of school and the teacher in charge of physics to make adequate preparations for this year's 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 pages 3 and 4. It is expected that the ordinary apparatus of 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 pages 3 and 4.
4. The question 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.

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Q1. Each candidate should be provided with the following:

- Metre rule
- Convex lens of focal length 20 cm
- Candle
- White screen
- Match box to be shared

NB. The teacher to mount the lens on the lens holder.

- Q2.
- A measuring cylinder(about 40 cm tall and should be made of glass)
  - 50 mls of glycerine in a beaker
  - Two rubber bands
  - A metre rule
  - A steel ball bearing(Diameter between 5mm and 7mm)
  - A magnet(any permanent magnet)
  - A micrometer screw gauge
  - stop watch(digital)