***Kenya Certificate of Secondary Education (K.C.S.E.)***

**Physics**

**232/3**

Paper 3 **Practical**

**CONFIDENTIAL**

**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 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 here does not reach the candidates either directly or indirect.
2. The **physics teacher** should note that it is his / her responsibility to ensure that each apparatus acquired for this examination agrees with the specifications given.
3. The question paper will not be opened in advance.

**Question 1**

 **Each candidate will require:**

* A pendulum bob (50g mass)
* A stop watch
* Metre rule
* Two retort stands
* Two clamps
* Two bosses
* Inextensible thread 120cm long and 20 cm (in two pieces)

**Question 2**

 **Each candidate will require:**

* A resistance wire/SWG 32-nichrome mounted on a millimeter scale labelled MN.
* A switch
* A voltmeter (O1A)
* An ammeter (O1A)
* Two dry cells size D (New)
* Six connecting wires at least 3 with crocodile clips
* White screen
* Candle
* Match box (to be shared)
* Convex lens (f=20cm)
* Lens holder.