## **CONFIDENTIAL INSTRUCTIONS TO SCHOOLS**

## PHYSICS PAPER 3 (232/3) (PRACTICAL)

#### **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 preparation 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 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 below. It is expected that the ordinary apparatus of a 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 as indicated on the list of apparatus below.
- 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.

### **QUESTION ONE**

*Every student should be provided with the following:* 

- A lens holder
- -Convex lens of (focal length 15.0 cm + 1 cm)
- A candle
- A white screen
- A metre rule
- -A Equilateral triangular glass prism of side 3.7cm
- -A plain sheet of paper
- -A soft board
- -4optical pins /thumbs
- -4 paper pins
- -A watch glass of (*diameter 10.0cm*  $\pm$  *lcm*)
- -A piece of plasticine *about 20g*
- -A marble of (diameter 1.60 cm + 0.50 cm)
- , conto download tree resources -A Stopwatch-An electronic balance (to be shared)
- Vernier calipers (to be shared)
- Geometrical set

# **QUESTION TWO**

- An ammeter (0 1 A)-
- A voltmeter (0 3 V or 0 5 V)-
- A variable resistor of  $100\Omega$ -
- A  $10\Omega$  carbon resistor
- A piece of resistance wire (SWG<sub>30</sub>) 50cm long -
- Two New Size D dry cells -
- A cell holder -
- -
- A switch Seven connecting wires of **4** should have crocodile clips both ends and **3** with crocodile visit www.fre clip on one end