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**PHYSICS**

**PAPER 3**

**PRACTICAL - Confidential**

**INSTRUCTIONS TO SCHOOLS.**

- The information contained in this paper is to enable the head of the school and the teacher in charge of physics to make adequate preparations for the 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 candidates do not acquire the information herein, either directly or indirectly.

- The physics teacher should ensure that all apparatus acquired for this examination agrees with the specifications given in this paper.

- The question paper will not be opened in advance.

- The physics teacher is **NOT** expected to perform the experiments.

Provide each candidate with the following apparatus

**Question one**

* Two dry cells size D
* An ammeter (0 – 1A)
* A voltmeter (0 – 5V)
* Nichrome wire (SWG 32) mounted on a millimeter scale labelled XY with X at 0cm mark
* A jockey or crocodile clip
* A cell holder holding two cells
* A switch
* 6 connecting wires (each 30cm long) with at least 3 with crocodile clips at the end

**Question two**

* A metre rule
* Two identical 100g masses labelled A and B
* About 200ml of paraffin in 250ml beaker labelled as liquid L.
* Four pieces of thread, three half metre long and one 70cm long.
* A stand with clams
* Piece of tissue paper
* Stopwatch
* Optical pin
* A cork
* A concave mirror of focal length 10cm
* A mirror holder or lump of plasticine