MULTILATERAL EXAM

**232/3 PHYSICS**

**PAPER 3 PRACTICAL**

**FORM 4 JANUARY 2023 TERM 1 OPENER EXAM**

**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.***

* Metre rule
* Complete stand
* A spring with a pointer of spring constant 10N/m
* Three masses (one 100g mass and two 50g mass)
* Stop watch
* Vernier calipers ( to be shared)
* Electronic beam balance ( to be shared which records to 1dp)
* A rubber bung (hard) ( D= 25.3 mm, d= 20.0mm and h = 28.1mm) (size of the mouth of boiling tube)

NB rubber cork can be used and the teacher to come up with marking scheme)

**Question2**

* 100cm nichrome wire SWG 32mm mounted on millimeter scale
* An ammeter 0-3 A
* A voltmeter
* Two new dry cells
* A cell holder
* A switch
* Six connecting wires ( atleast four with crocodile clips at the end)
* A torch bulb 2.5v fixed into a lamp holder
* A jockey