GUCHA SOUTH EVALUATION TEST (GSET) 2016 Kenya Certificate of Secondary Education (K.C.S.E) 232/3 PHYSICS PAPER 3 **CONFIDENTIAL INSTRUCTIONS**

The information in this paper is to enable the head of the 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 it's contents. The teacher in charge of physics should NOT perform any of the experiments in the same room as the candidates or make the results of the experiment available to the candidates or give any other information related to the experiments to the candidates. Doing so will constitute an examination irregularity which is PUNISHABLE.

Each candidate should be provided with the following:

Question 1

- Saturated salt solution in 500ml beaker.
- Two identical cylindrical 100g masses 1
- √ Three pieces of thread.
- 1 A retort stand.
- ✓ A metre rule

Question 2

- Ammeter
- 1 A voltmeter
- A wire labelled X on a mm scale (Gauge 32) ✓
- √ A switch
- 1 A jockey

V =

- √ Three new size D dry cells.
- √ Six connecting wires with crocodile clips at both ends.
- Three cells holders. √

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		PH	IYSICS
		PA	PAPER 3 (PRACTICAL)
Qu	lestion 1		
Yo	ou are provided with the following.		
•	Two pieces of thread.		
-	Saturated salt solution in 500ml beaker.		
	Two identical cylinder masses of 100g		
.	A retort stand.		
	A metre rule.		
a)	Determine the volume V of one of the masses using the apparatus provided.		
	Record V		

(2 marks)

Explain how you determined the volume V.	(1 mark)
b) i) Determine the centre of Gravity of the metre rule and record it.	
G	(1 mark)

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- (i) The e.m.f E of the cell.
- (ii) The internal resistance, r of the cell.

(2 marks)