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PHYSICS PRACTICAL	
Paper 3	Date:
TERM TWO	
2 ½ hours	

100

FORM THREE

INSTRUCTIONS TO CANDIDATES

- (a) Write your name and admission number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) Answer ALL the questions in the spaces provided in the question paper.
- (d) You are supposed to spend the first **15 minutes** of the 2½ hours allowed for this paper reading the whole paper carefully before commencing your work.
- (e) Marks are given for a clear record of the observations actually made, their suitability, accuracy and the use made of them.
- (f) Candidates are advised to record their observations as soon as they are made.
- (g) Non-programmable silent electronic calculators may be used.
- (h) Thispaperconsists of 5 printed pages.
- (i) Candidatesshould check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- (j) Candidates should answer the questions inEnglish.

For Examiner's Use Only

Question 1

		b		d	е	f	g(i)	(ii)				
Maximum Score		1		7	5	3	2	2		20		
Candidate's Score											Total	
Question 2												
	b	c(i)	(ii)								[
Maximum Score	12	5	3						20		Totą <u>l</u>	
Candidate's Score										GR	RAND	

This paper consists of 5- printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing. The Teacher to comment directly to the below contant.

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QUESTION ONE

- 1. You are provided with the following apparatus;
 - Metre rule
 - Small piece of plasticine
 - 250ml beaker
 - 3 pieces of cotton thread each 30cm long
 - A piece of cellotape 5cm
 - A measuring cylinder 100ml
 - A stand and clamp
 - 50g mass
 - a) Using 30cm thread, suspend the metre rule at the 50cm marks. You may use some plasticine to ensure that the balance is exactly at 50cm.
 - b) Suspend the empty beaker at 40cm mark and hang the 50g mass to the other side



Beaker

Move the 50g mass until the metre rule balances horizontally. Record the distance	
<i>q</i> =cm	(1mrk)

Use the cello tape provided to fix the position of the 50g mass. Note the point of suspension must remain the same throughout the experiment.

- c) Using the measuring cylinder measure 20cm³ of water and add it to the beaker. By varying the length Z obtain the new point and record it in the table below.
- d) Repeat the procedure above for other values of volumes as shown in the table, hence complete it

Volume V cm ³	0	20	40	60	80	100	120
Length Z cm							

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J



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b) Adjust the potentiometer until you are able to obtain minimum reading on the voltmeter and maximum on the ammeter. Record these readings in the table below.

V (V)			
I (A)			
V			
Ι			
1			
Ι			
			(12mrks)

c) By adjusting the potentiometer, obtain five more readings at an interval of 0.5V and complete the table

i)Plot a graph of $\frac{V}{I}$ against $\frac{1}{I}$

(5mrks)

