Index No..... Date.....

232/3PHYSICS PRACTICAL PAPER 3 JULY / AUGUST 2012 **TIME: 2 HOURS**

Name.....

Candidate's signature....

School.....

LOITOKITOK DISTRICT JOINT EVALUATION TEST - 2012

Kenya Certificate of Secondary Education (K C.S.E.)

FOT NOTE FILE **INSTRUCTIONS TO THE CANDIDATES:**

www.freekc

- Write your **name** and **Index Number** in the spaces provided above.
- 2. Sign and write the date of examination in the spaces provided above
- Answer **all** the questions in the spaces provided in the question paper. 3.
- 4. You are supposed to spend the first 15 minutes of the 2 ¹/₂ hours allowed for this paper reading the whole paper carefully before commencing your work.
- Marks are given for a clear record of the observations actually made, their suitability, accuracy 5. and the use made of them.
- Candidates are advised to record their observations as soon as they are made. 6.
- 7. Non-programmable silent electronic calculators and KNEC mathematical tables may be used.

FOR EXAMINERS' USE ONLY

Ω^1 TOTAL **QUESTION** b a с 1 MAXIMUM SCORE 2 17 **CANDIDATES SCORE**

0.2

X							
QUESTION	b	С	d	e	f	g	TOTAL
MAXIMUM SCORE	8	-	5	3	3	1	
CANDIDATES SCORE							

This paper consists of 12 Printed pages.

Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

- .Freekcsepastpapers.com You are provided with the following 1.
 - A metre rule
 - A piece of thread
 - A clamp, boss and stand

60g

- A mass labeled W
- 2 masses of 20g _
- A mass of 50g _
- 2 masses of 10g , which

Procedure

- Using thread suspend the metre rule from the stand and note down the centre of gravity. a)
- G=.. cm i) 📀 Hang the mass W from the 65 cm mark. Suspend the 50g mass from the other side b) and adjust its position till the system is in equilibrium as shown in the figure below For More Free Kcst

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Maintaining the points of suspension of the metre rule at G and the mass labeled W i) c) at 65cm mark. Repeat the experiment for the masses of 70, 80, 90, 100 and 120g. enter the results in the table below.

Mass(g)	WeightF(N)	DistanceX(M)	
(8)	8 4 ()		$-M^{-1}$
			X
50			
70			
10			
80			
90			
100			
120			
1	1		

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ii)



iii) Determine the slope, S, of the graph.

(3 marks)

(3 marks)

iv) Given that $F = \frac{WY}{X}$ where Work a constant, find its value.

Visit www.freekci You are provided with the following apparatus 2. An Animeter(0-1.0A) A woltmeter (0-2.5V)X resistance wire PQ mounted on a mm scale Two new dry cells. A switch A cell holder For Note Fr Six connecting wires Procedure Set up the apparatus as shown below. a) P φ 111111 1 1 1 ı. 1 - 1

b) Starting with L=0.2 m, close the switch. Record the value of I, the current through the wire and V, the p.d across it. Enter your results in the table drawn below

L(M)	0.2	0.4	0.5	0.6	0.7	0.8
I(A)						
p.d(V)						
$R = \frac{V}{I}(\Omega)$						
$\frac{1}{I}A^{-1}$						
c) Repeat part (b) above for the value of L, shown in the table.						

Record the corresponding values of I and V. Calculate the values of R and $\frac{1}{I}$ and enter the values in the table.



Physics 232/3 Turn Over



e) Determine the slope, S, of your graph.

(3 marks)



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