

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

PHYSICS 0625/61

Paper 6 Alternative to Practical

October/November 2012

1 hour

Candidates answer on the Question Paper

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of the page.

Write in dark blue or black pen.

You may use a pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

For Exam	iner's Use
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Total	

This document consists of **11** printed pages and **1** blank page.



1 The IGCSE class is investigating the stretching of a spring.

Fig. 1.1 shows the experimental set up.



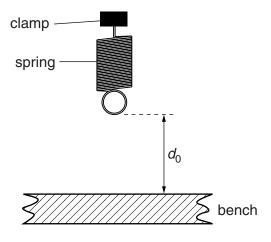


Fig. 1.1

(a) On Fig. 1.1, measure the vertical distance d_0 , in mm, between the bottom of the spring and the surface of the bench.

$$d_0 = \dots mm [1]$$

(b) The diagram is drawn $1/10^{th}$ actual size. Calculate the actual distance D_0 , in mm, between the bottom of the spring and the surface of the bench.

$$D_0 = \dots mm[1]$$

(c) A student hangs a 1.0 N load on the spring. He measures and records the distance *D* between the bottom of the spring and the surface of the bench, and the value of the load *L*.

He repeats the procedure using loads of 2.0 N, 3.0 N, 4.0 N and 5.0 N. The distance readings are shown in Table 1.1.

Calculate the extension e of the spring, for each set of readings, using the equation $e = (D_0 - D)$. Record the values of L and e in Table 1.1.

Table 1.1

L/N	D/mm	e/mm
	199	
	191	
	179	
	171	
	160	

[2]

(d) Plot a graph of e/mm (y-axis) against L/N (x-axis).

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[4]

(e) Determine the gradient *G* of the graph. Show clearly on the graph how you obtained the necessary information.

G =	 [2	l

(f) When making measurements, the student is careful to avoid a line-of-sight error.

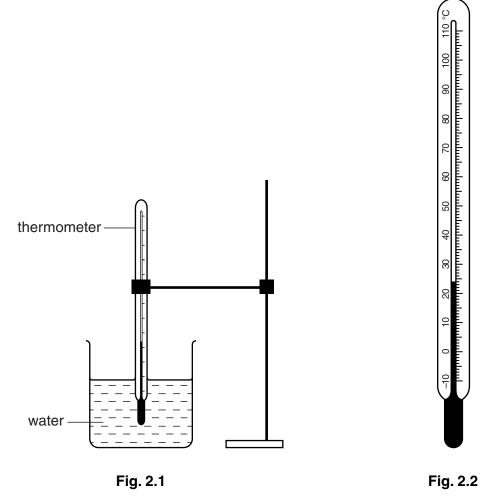
Suggest one other precaution that the student should take when measuring the distance D between the bottom of the spring and the surface of the bench.

F 4.7

[Total: 11]

2 The IGCSE class is investigating the rate of cooling of water under different conditions.
The apparatus is shown in Fig. 2.1.

For Examiner's Use



(a) Record the value of room temperature $\theta_{\rm R}$ shown on the thermometer in Fig. 2.2.

$$\theta_{\mathsf{R}}$$
 =[1]

(b) A student pours $150\,\mathrm{cm}^3$ of hot water into a beaker. She measures the temperature θ of the water at time t=0 and records it in a table.

For Examiner's Use

[Total: 6]

She starts a stopclock and records the temperature of the water at 30s intervals until she has a total of six values up to time t = 150s. The readings are shown in Table 2.1.

She repeats the procedure, using 250 cm³ of hot water.

Table 2.1

	volume	of water
	150 cm ³	250 cm ³
t/	θ /	θ /
0	84	85
30	79	79
60	74	75
90	70	72
120	68	70
150	66	68

(i)	Complete the column headings in the table.	[1]
(ii)	State whether the rate of cooling is significantly faster, slower, or about the sa when using the larger volume of hot water. Justify your answer by reference to readings.	
	statement	
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		 [2]
	nis experiment were to be repeated in order to check the results, it would be import control the conditions. Suggest two such conditions that should be controlled.	ant
1		
2		
		[2]

(c)

3 The IGCSE class is investigating the potential differences across circuit components.

For Examiner's Use

Fig. 3.1 shows the apparatus used.

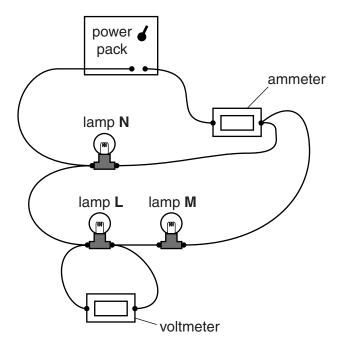


Fig. 3.1

(a) Draw a circuit diagram of the circuit shown in Fig. 3.1, using standard symbols.

[3]

(b) A student records the current $I_{\rm A}$, the potential difference $V_{\rm L}$ across lamp ${\bf L}$ and the potential difference $V_{\rm M}$ across lamp ${\bf M}$.

$$I_{A} =$$
 0.65 A
$$V_{L} =$$
 0.9 V
$$V_{M} =$$
 1.0 V

(i) Calculate the potential difference $V_{\rm A}$ across lamps **L** and **M** using the equation $V_{\rm A} = V_{\rm L} + V_{\rm M}.$

		7	
	(ii)	Calculate $R_{\rm A}$, the combined resistance of $R_{\rm A} = \frac{V_{\rm A}}{I_{\rm A}}.$	lamps $\boldsymbol{L},\boldsymbol{M}$ and $\boldsymbol{N},$ using the equation
			R _A =[2]
((iii)	On Fig. 3.2, draw a pointer showing the cur	rrent $I_{A} = 0.65 \mathrm{A}$.
		0.4 0.6 0.2 0.4 0 A	1.0
		• Fig. 2.0	[41]
		Fig. 3.2	[1]
(0)	Tho	atudant rearranges the sircuit as that the th	area lampa are in series with each other
(c)		student rearranges the circuit so that the the records the potential difference across each	
(c)		records the potential difference across each	
(c)		records the potential difference across each	lamp in turn.
(c)		records the potential difference across each	lamp in turn. V _L =
(c)	He i	records the potential difference across each	lamp in turn. $V_{L} = \dots \qquad 0.6V$ $V_{M} = \dots \qquad 0.7V$ $V_{N} = \dots \qquad 0.7V$
(c)	He i	records the potential difference across each culate the potential difference $V_{ m B}$ across	lamp in turn. $V_{L} = \dots \qquad 0.6V$ $V_{M} = \dots \qquad 0.7V$ $V_{N} = \dots \qquad 0.7V$
(c)	He i	records the potential difference across each culate the potential difference $V_{\rm B}$ across = $V_{\rm L}$ + $V_{\rm M}$ + $V_{\rm N}$.	lamp in turn. $V_{L} = \dots \qquad 0.6V$ $V_{M} = \dots \qquad 0.7V$ $V_{N} = \dots \qquad 0.7V$
(c)	Calc V _B =	records the potential difference across each culate the potential difference $V_{\rm B}$ across = $V_{\rm L}$ + $V_{\rm M}$ + $V_{\rm N}$.	lamp in turn. $V_{L} = \dots $
	Calc $V_{\rm B}$ =	records the potential difference across each culate the potential difference $V_{\rm B}$ across = $V_{\rm L}$ + $V_{\rm M}$ + $V_{\rm N}$.	lamp in turn. $V_{\rm L} = \dots $

[Total: 8]

[2]

For Examiner's Use

justification

4 The IGCSE class is investigating the refraction of light passing through a transparent block.

For Examiner's Use

The apparatus and ray-trace sheet are shown in Fig. 4.1.

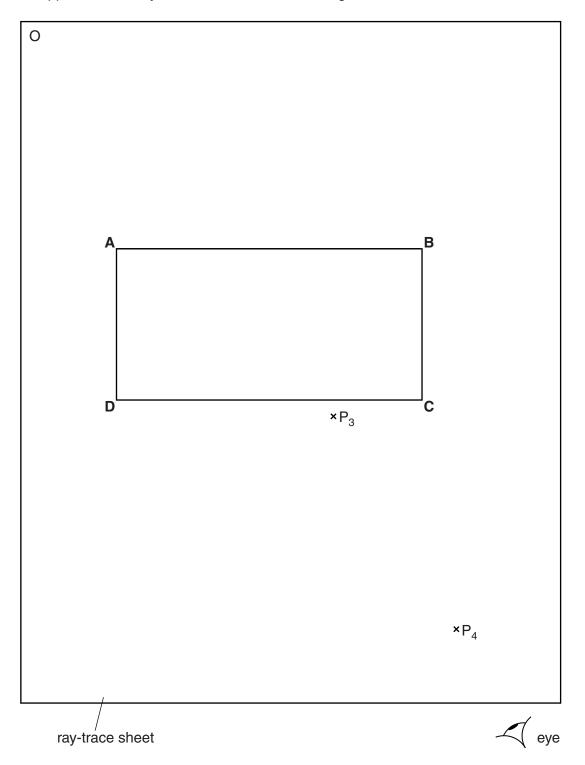


Fig. 4.1

(a)		tudent places the transparent block, largest face down, on the ray-trace sheet. She ws the outline of the block ABCD .	For Examiner's Use
	(i)	On Fig. 4.1, draw a normal at the centre of side AB . Label the point E where the normal crosses AB .	
	(ii)	Draw a line FE to the left of the normal and at an angle of incidence $i = 30^{\circ}$ to the normal. [2]	
(b)	obs and and	estudent places two pins P_1 and P_2 on the line FE , placing one pin close to E . She erves the images of P_1 and P_2 through side CD of the block so that the images of P_1 P_2 appear one behind the other. She places two pins P_3 and P_4 between her eye the block so that P_3 and P_4 , and the images of P_1 and P_2 seen through the block, ear one behind the other.	
	(i)	On Fig. 4.1, mark suitable positions for the pins P ₁ and P ₂ . [1]	
	(ii)	Draw a line joining the positions of P_3 and P_4 . Continue the line until it meets ${\bf CD}$ and label this point ${\bf G}$.	
	(iii)	Draw the line GE .	
(a)	/:\	[1]	
(c)	(i)	Measure and record the angle of refraction <i>r</i> between the line GE and the normal.	
	(ii)	r =	
		$\frac{i}{r} = \dots [1]$	
(d)		student repeats the procedure but with the angle of incidence $i = 40^{\circ}$. The angle of action $r = 26^{\circ}$.	
	(i)	Calculate the ratio $\frac{i}{r}$.	
		$\frac{i}{r} = \dots [1]$	
	(ii)	A student suggests that the ratio $\frac{i}{r}$ should be a constant.	
	(11)	·	
		State and explain briefly whether your results support this suggestion.	
		[1]	
		[Total: 8]	

5	(a)	The IGCSE class has a range of apparatus available. Here is a list of some of the apparatus.
		ammeter
		barometer
		beaker
		electronic balance
		manometer
		measuring cylinder
		metre rule
		newtonmeter (spring balance)
		stopwatch
		tape measure
		thermometer
		voltmeter

Complete Table 5.1 by inserting the name of one piece of apparatus from the list that is the most suitable for measuring each quantity described.

Table 5.1

quantity to be measured	most suitable apparatus
volume of water	
a distance of about 50 m	
the force required to lift a laboratory stool	
the mass of a coin	
the pressure of the laboratory gas supply	

[5]

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(D)	object, a screen and a lens.		
		Firstly, the distance between the illuminated object and the lens is measured with a netre rule. Next, a clearly focused image is obtained on the screen.	
	(i)	Explain briefly how you would avoid a parallax (line-of-sight) error when using the metre rule.	
		[1]	
	(ii)	State a precaution that you would take to ensure that the image is well focused.	
		[1]	
		[Total: 7]	

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