

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
PHYSICS			0625/05
Paper 5 Pract	ical Test		May/June 2007
ANSWER BOO	OKLET		
			1 hour 15 minutes

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

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

All of your answers should be written in this Answer Booklet: scrap paper must **not** be used.

DO **NOT** WRITE IN ANY BARCODES

Answer all questions.

Graph paper is provided in this Answer Booklet. Additional sheets of graph paper should be used only if it is necessary to do so.

At the end of the examination, fasten any additional answer paper used securely to this Answer Booklet. The number of marks is given in brackets [] at the end of each question or part question.

For Examiner's Use				
1				
2				
3				
4				
Total				

This document consists of **5** printed pages and **3** blank pages.



1	(b)	Rec	ford of θ_1				
	(d)	Record of θ_2					
	(f)	Record of θ_3					
	(g)	Rec	ford of θ_2				
	(i)	Rec	ford of $ heta_3$	[2]			
	(j)	(i)	A practical explanation for this difference				
				[1]			
		(ii)	Two practical improvements				
			1				
			2				
				[2]			
			[Total:	10]			

[1]

2 (a) Record of h_0

(c) - (h)

Hole	d/mm	h/mm	b/mm
1			
2			
3			
4			
5			
6			

[3]

(i)

					d/mm					
0	10	20		40	50	60	70		90	100
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-H		++++	+++++	 		++++	++++		+++	+++
-H	+	++++	++++	++++	+	+	++++		++++	+

[4]

(j)	Statement
	Reason
	[1]

(k) How you checked that the rule was vertical

 [1]

[Total: 10]

3 (b) – (g)

wire	V/	I/	R/
AB			
CD			
			[8]
(h) •	R is proportional to d		
•	R is proportional to 1/d		
•	R is proportional to d^2		
•	R is proportional to $1/d^2$		[1]
(i) Ex	planation		
			[1]

[Total: 10]

4 (a) – (g)

(i)

d/m	<i>x</i> /m	<i>y</i> /m	f/m
0.800			
0.900			

[5]

(h١	Calculation	of average	value of the	e focal le	nath <i>f</i>
•	••/	Calculation	Ji avciago	value of the	, iocai ic	ngui <i>i</i>

<i>t</i> =			[3]
Two steps that yo	ou took to obtain an accu	rate result	
1			
2			
			[2]

[Total: 10]

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