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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0625 PHYSICS

0625/61

Paper 6 (Alternative to Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2		Mark Scheme	Syllabus	Paper	
		IGCSE – October/November 2013	0625	61	
1	(a) rule bala	nced <u>and</u> pivot at centre of mass		[1]	
	OR add	take readings from 50.2 cm mark mass/weight/load e pivot at 50.2 cm mark		[41]	
	OR place	e pivot at 50.2 cm mark		[1]	
	(c) (i) cm,	cm		[1]	
		kwise 77.5 (or 78) (Ncm) clockwise 78 (Ncm)		[1]	
	(d) EITHER repeats OR estimate between two best positions that almost balance but tip opposite sides o.w OR suitable method to locate centre of mass Q				
				[1] [Total: 5]	
2	(a) 87 (°C)			[1]	
	(b) (i) s, °C	c, °C		[1]	
	` ' ` '	B <u>and</u> greater temperature difference OR numbers quoted, <i>must</i> see 21 and 8 or 24 and	5	[1]	
	(iv) A 23	8(°C) and B 40(°C)		[1]	
	(v) 20 –	26 (°C)		[1]	
		viewing thermometer at right angles ence to being ready on time		[1]	
		from: nperature tarting temperature			
	distance	of thermometer bulb from water surface reference to draughts / fans / air conditioning		[2]	
				[Total: 8]	
				· •	

per :1 [1] [1]
[1]
[1]
[1]
[1] [1]
ols [1] [1]
[1]
Γotal: 9]
[1] [1]
[1]
[1]
[1] [1]
[1]
[2]

Page 4	Mark Scheme	Syllabus	Paper
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5 (a) 54 – 55 [1]

(b) (i) table:
 e values 12, 22, 36, 50, 60 (e.c.f. from (a))

(ii) graph:
 axes correctly labelled e/mm and F/N and correct way round
 suitable scales
 all plots correct to ½ small square
 good line judgement
 thin, single continuous line

[1]

(iii) triangle method using at least half of candidate's line, shown on the graph G = 11 - 13, no e.c.f. [1]

[Total: 9]