www.xtrapapers.com

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2007 question paper

0625 PHYSICS

0625/05

Paper 5 (Practical Test), 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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

www.xtrapapers.com

Page 2	Mark Scheme	Syllabus	S. Pr
	IGCSE – October/November 2007	0625	100

- 1 (a)–(e) t in s, θ in °C, and θ 0 (10 45) Complete set of readings, temps decreasing Evidence of θ to 1°C
 - (f) (i) T_1 , T_2 correct arithmetic [1]
 - (ii) $T_1 > T_2$ [1]
 - (g) (i) reason consistent with results [1]
 - (ii) Three from:
 room temp/draughts, etc.
 volume/mass/amount
 beaker/insulation/lid/surface
 liquid
 amount of stirring
 (not starting temperature)

 [3]
 - **(h)** lid [1]
- **2** (a) $h_0 = 25 100$ cm with correct unit [1]
 - (b)–(d) complete table h, d [1] correct arithmetic for d [1] all h to nearest mm
 - (e) Graph: suitable scale labelled symbol/unit [1]
 - all plots to nearest ½ sq (–1 each error or omission) [2] line thin and well judged [1]
 - (g) calculation of *d* correct [1] correct reading from graph to ½ square and to 1dp

[Total: 10]

[Total: 10]

trapapers.com

Page 3	Mark Scheme	Syllabus	er
	IGCSE – October/November 2007	0625	00

- (a)–(c) 4 I values, sensible (watch for I x 10) 3 All I to at least 2 dp I in A at least once $I = I_1 + I_2 + I_3 + 10\%$
 - (d) statement (yes) reason consistent with readings
 - (e) variable resistor/extra cell/vary power supply/different number of lamps
 - (f) sensible V (< 3V), unit and at least 1 dp
 - (g) correct arithmetic for R unit and 2/3 sf
- **(h)** $V_a = 0$, $V_b = V$
- **(f)–(h)** sensible *x* value (less than *h*) sensible h value (typical block: 10 cm) x to nearest mm
 - x and h with same unit

correct arithmetic for n

- (i)-(j)second different h value
- (k) correct method for average n 2/3 sf and no unit
 - both n values 1.4 1.6
- (I) two equal heights from bench (or other valid method)

- [1]
- [1]
- [1]
- [1]
- [1]
- [1] [Total: 10]
- [1] [1]
 - [1]
 - [1] [1]

 - [1]
- [1]
 - [1]

[1]

- [1]
- [Total: 10]