UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2007 question paper

0625 PHYSICS

0625/06 Paper 6 (Alternative to Practical), maximum raw mark 40

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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.

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1 **(a)** 24 [1]

(b) s, °C [1]
23, 1 (-1 each error) [2]

(c) **(i)** reason consistent with results [1]

(ii) Three from:
room temp/draughts etc
volume
beaker
liquid
amount of stirring
surface area [3]

(d) lid [1]

[Total: 9]

2 **(a)** 8, 14, 20, 25, 34, 41 (-1 each error) [2]

(b) **(i)** Graph:
suitable scales labelled symbol/unit [1]
all plots to nearest ½ sq (-1 each error or omission) [2]
line thin and straight [1]

(ii) correct value (29mm – 31mm)to nearest ½ sq. [1]
clear how obtained [1]

[Total: 8]

3 **(a)** 0.41, 0.13, 0.14, 0.12(-1 each error) [2]
I in A at least once [1]

(b) statement (yes)
Reason – correct within limits of experimental accuracy [1]

(c) variable resistor/extra cell/variable power source/potential divider/potentiometer [1]

(d) **(i)** correct arithmetic for *R* 3.90 (ecf) [1]
unit and 2/3 sf [1]

(ii) voltmeter correct position and symbol [1]

[Total: 8]

4 **(a)** **(i)** x = 2.1, 2.2 [1]

(ii) h = 6.5, 6.6 [1]
x and h with same unit [1]

(iii) correct arithmetic for n1.47 – 1.51 (ecf) [1]
2/3 sf and no unit [1]

(b) two equal heights from bench (or other valid method) [1]

[Total: 6]

5 **(a)** **(i)** 50, 75/76 [1]

(ii) 25 (ecf) [1]
cm^3 (at least once and not contradicted) [1]

(iii) density 4.36 (ecf) [1]

(b) V_2, V_1 [1]
cm^3(at least once and not contradicted) [1]
density g/cm^3 [1]
5.68, 3.02 both to 2/3 sf [1]

(c) Same method, lots of grains [1]

[Total: 9]