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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2008 question paper

0625 PHYSICS

0625/05

Paper 5 (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.

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 May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



| | Page 2 | | Mark Scheme | Syllabus | Paper |
|---|--|---|--|----------|--|
| 1 | (b) | clear e | igcse – May/June 2008 explanation/diagram | 0625 | 05 [1] |
| | (d) | b > a | = 38 – 42 cm m, cm or mm, with unit | | [1] [1] [1] |
| | (e) | W corr | rect calculation (ecf) | | [1] |
| | (f) | a + b = | and <i>b</i> values, both less than 50 cm = 28 – 32 (cm) values same to within 10% | | [1] [1] [1] |
| | (g) | | t method nificant figures and unit N | | [1] [1] [Total: 10] |
| 2 | All | ts V, A, V to at I I to at le alues consistent cuit 1 I v | Ω (symbol/word) east 1 dp, less than 3 V east 2 dp, less than 1 A correct (ecf) 2 or consistent 3 sig fig for R value greatest value < circuit 2 I value | | [1] [1] [1] [1] [1] [1] |
| | (b) | | es (if within 10%) No (if not) ne ninth value calculated and compared | | [M1] [A1] |
| | | | mperature change/zero error in meter/ imps unlikely to have same resistance | | [1] [Total: 10] |
| 3 | (a) Table: container A complete temp records descending container B complete temp records descending temps to nearest 1 °C or better | | | | |
| | (b) | Suitab Plots o | erature axis labelled θ /°C le scale (plots occupy at least ½ grid) correct to nearest ½ square well judged curves | | 1 1 1 1 |

| | Page 3 | Mark Scheme | Syllabus | Paper |
|---|--|--|----------|--------------------------|
| | | IGCSE – May/June 2008 | 0625 | 05 |
| | (c) Statement: larger surface area increases rate of cooling/ no significant effect (depending on readings) Justification: Correct reference to gradients of lines | | | 1 |
| | | | | [Total: 10] |
| | | | | [|
| 4 | Trace: all lines present, thin, neat and in correct areas normal drawn EF at 30° to normal (by eye) P ₃ P ₄ distances at least 5 cm KJ at least 5 cm | | | [1] [1] [1] [1] |
| | (h) a correct | t to 2mm | | [1] |
| | (j) b correct | to 2mm | | [1] |
| | (I) c and d r a and b I | recorded, both in mm, cm or m with unit | | [1] |
| | | alculation of <i>n</i> , value 1.3–1.7 ficant figures with no unit | | [1] [1] |
| | | | | [Total: 10] |
| | | | | |