

Wany, Papa Cambridge, com MARK SCHEME for the May/June 2010 guestion paper

for the guidance of teachers

0625 PHYSICS

0625/63

Paper 63 (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 must be read in conjunction with the question papers and the report on the examination.

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CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

| | ge 2 | Mark Scheme: Teachers' version | Syllabus | | |
|-----|--|---|--------------------------|--|--|
| | | IGCSE – May/June 2010 | 0625 | | |
| | age 2 Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2010 0625 table: 1/d values correct 0.0331, 0.0418, 0.0500, 0.0585 (0.058 to 2 sig. fig.), 0.0662 consistent 2 or 3 significant figures | | | | |
| | plots all o well judge | elled uitable, <u>plots</u> occupying at least half grid correct to $\frac{1}{2}$ square (ecf) – take centre of plot if large ed line thin line ($\leq \frac{1}{2}$ square) t if plots > $\frac{1}{2}$ square) | [1] [1] [1] [1] | | |
| (c) | | <u>method</u> used and <u>shown</u> (any indication on graph) using at least half line (can be seen in calculation) | [1] [1] | | |
| | | 3 (NO ecf) gnificant figures and unit g | [1] [1] | | |
| | | | [Total: 10] | | |
| | (NOT deg times 30, | n °C (either in words or mixture of symbols and words grees/centigrade) , 60, 90, 120, 150, 180 perature falls correct (ignore unit or lack of unit) 26, 30 | [1] [1] | | |
| (c) | justificatio | on matches statement (expect B) eference to readings (need a comparison – not 'heat' o o fall | | | |
| (d) | stir/s same cons same avoid (NO ⁻ | from: e starting temperature same thermometer position e interval time stant room temperature/carry out at same time e volume/amount/mass of water d draughts or wtte T reference to container, insulation, precaution) ra answers: –1 if incorrect, ignore if neutral) | [2] | | |
| | | | | | |

| Page 3 | | Mark Scheme: Teachers' version | Syllabus 7. Syllabus |
|--------|--|--|----------------------|
| | | IGCSE – May/June 2010 | 0625 230 |
| 3 (a) | diagram: correct s (lamp – c voltmete lamps in | Syllabus 0625 urce) | |
| (b) | Correct A | any in symbols, words or a mixture) R values 6.13, 6.00, 3.11 ent 2 or 3 significant figures | [1] [1] [1] |
| (c) | | nt matches readings (expect NO) ion matches statement | [1] |
| | | eference to <u>resistance results</u> (don't need numbers) | [1] |
| | | | [Total: 8] |
| (a) | normal la | abelled (allow N N' on end or N, N' alone) | [1] |
| (b) | P ₁ P ₂ dist | tance at least 3 cm | [1] |
| (c) | | drawn neatly and correctly t to ±1° 60 | [1] |
| | (<i>θ</i> −2i) c | correct 0 (ecf) (ignore sign) | [1] [1] |
| | unit ° at I | least once in (c) and not contradicted | [1] |
| (d) | 2° (ignor | e unit and sign) | [1] |
| (e) | | nt matches results (ecf) | |
| | NO only | 'ES if 0 and 2, if 'too different' or wtte in justification | [1] |
| | | ion matches statement and by reference to results most/nearly the same or within expt accuracy) | [1] |
| | | | [Total: 9] |

| raye | 9 4 | Mark Scheme: Teachers' version | Syllabus V | · 2 | |
|---------------|--|---|-------------------|------|--------------|
| | | IGCSE – May/June 20 | 10 | 0625 | 122 |
| • • | | l <i>y</i> = 5.4 (any answer correct wher orrect unit | n rounded to 2 sf |) | www.xtrapape |
| | | o unit, 2 or 3 significant figures (al | low x for unit) | | 19 |
| | | calculation from <u>correct</u> x and y | , | | 0 |
| (b) ar | ny two fro | m: | | | |
| m | use are ensure mark c creen and | rule or place on bench ea away from direct sunlight/dark e object and lens same height (fror on lens holder (accept on lens) I lens perpendicular to bench/align slowly (backwards and forwards) | n bench) | | kis |
| a | void paral | lax (or wtte) with <u>action</u> given | | | 2 |
| | | n on paper on screen/graph paper | | | |
| • • | hark on sc | reen (Inen) measure/clamp ruler (| on scale/ | | |
| m | | reen (then) measure/clamp ruler c cent screen and measure from otl | | | [1] |