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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

0625 PHYSICS

0625/51

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, 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.

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

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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|---|--------|--|---|---------------------------------------|--------------------|----------------------|---------------------------|
| | | | IGCSE - | October/Noven | nber 2011 | 0625 | 51 |
| 1 | (a) | (a) & (b) correct d values 5, 10, 15, 20, 25 x and y values present all less than 45 cm | | | | | |
| | (c) | scales su all plots of | elled, y/cm and x uitable, using at l correct to neares jed, continuous, | east half of grid t ½ small square | | | [1] [1] [1] [1] |
| | (d) | triangle method used and clearly shown, using at least half line readings from graph correct to $\frac{1}{2}$ small square | | | | | [1] [1] |
| | (e) | W calculation correct with unit N and to 2 or 3 significant figures (ecf) W value between 0.7 and 1.4 | | | | | [1] [1] [Total: 10] |
| 2 | (a) | $\theta_{\rm m}$ betwee Any two stirring waiting for | or temperature to rmometer scale a | nit °C o stabilise | | | [1] [1] |
| | (b) | θ_c and θ correct a | | s, $	heta_{m}$ between $	heta_{c}$ | , and $	heta_{h}$ | | [1] [1] |
| | (c) | justified | nt matches readi by reference to ental accuracy | | ude idea of withir | ı (or beyond) limits | [1] s of [1] |
| | (d) | heat loss | s to surroundings | o.w.t.t.e. | | | [1] |
| | (e) | lid on be | beakers ansfer of water | cylinder | | | [1] [Total: 10] |

| 3 | (a) | uni I_{A} a | I values to 2 decimal places that the table I values to 2 decimal places and $I_{\rm D}$ both greater than $I_{\rm B}$ and $I_{\rm C}$ and $I_{\rm C}$ to 1 decimal place | [1] [1] [1] [1] |
|---|---|---|---|--------------------------|
| | (b) | (b) (I_B + I_C) correct statement matches readings justified by reference to readings (c) V to at least 1 decimal place and < 2.5(V) R correct, 2 or 3 significant figures and unit | | [1] [1] [1] |
| | (c) | | | [1] [1] |
| | (d) | vol | [1] [Total: 10] | |
| 4 | (a)- | -(f) | trace: normal at 90° in correct position all lines present and neat AB correct position first P_2P_3 distance ≥ 5.0 cm | [1] [1] [1] [1] |
| | (h)- | -(j) | trace: M ₁ R ₁ and AC correct | [1] |
| | | | table: i values correct to 2° r values correct to 2° both $i = r$ to 4° | [1] [1] [1] |
| | (I) any two from: thickness of lines thickness of mirror thickness of protractor o.w.t.t.e. | | ckness of lines ckness of mirror ckness of protractor o.w.t.t.e. | ro1 |
| | | tnic | kness of pins/holes | [2] [Total: 10] |

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