N. +FREINGA PORTS

CAMBRIDGE INTERNATIONS

NOVEMBER 2002

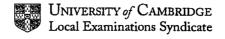
INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0625/6

PHYSICS (ALTERNATIVE TO PRACTICAL)



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE Examinations – November 2002	0625	6

1. (a) (i) $x = 6.0 / 6.1$	1
(ii) 6/12	1
d = 0.50	1
(iii) value 0.0654	1
unit	1
2/3 sf	1
(b) (i) 80	-
96	1 .
(ii) $96 - 80 = 16$	1
(iii) 0.0711 (ignore sf) with unit	i
(c)	•
(ii) M1, difficult to measure liquid volume accurately	
M2, more beads	
M2, diameter variation	
other sensible suggestion.	1 .
onici sonsiolo suggestion.	TOTAL 10
	LICIALIO
2. (a) symbol	1
position	1
(b) (i) student B	1
(ii) B gives exact p.d.	1
• • • • • • • • • • • • • • • • • • • •	1
or A gives p.d. to nearest 2V (c) correct symbol	1
	1
(d) correct position (± 0.1V)	I
	TOTAL 6
2 () (') 0 ('') - 1	•
3. (a) (i) & (ii) scales	1
labels	1
plots (-1 each error)	2
line judgement -str line thin & neat & good plots	1
- best fit	1
(iii) large triangle (> ½ line) seen	1
G = 1.15 - 1.25	1
(iv) correct value (ecf) (= 6.0)	1 .
unit & 2/3 sf	1
(v) weight off end of rule	1
(b) add plasticine to end or balance at 50.3 cm and take measurements accordingly	
OR move pivot to 50.3 mark	
OR no action – result will still be correct	-1
	TOTAL 12

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE Examinations – November 2002	0625	6

4. (a) (i) heat loss during the experiment (third box)(ii) insulation, repeats, stirring, use dig thermometer, lid (ar	ny 2) 1
(b) 38°C (c) value 66 W	1 1 1 TOTAL 6
5. (a) (i) 2.07 2/3 sf no unit (ii) upside down 3 cm high (b) metre rule on bench or clamped above lens	1 1 1 1 1 1 TOTAL 6