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## **0625 PHYSICS**

0625/06

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

This mark scheme is published as an aid to teachers and students, 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.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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Page 2		Mark Scheme	Syllabu Sper
		IGCSE - OCT/NOV 2006	0625 730
(a)	4.1 (	1)	ente
(b)	(i)	4.9 (cm) both in correct unit	Syllabb 0625 (1) [1]
	(ii)	7.83(4) (ecf) cm <sup>3</sup>	[1] [1]
(c)	(i)	7/7.0/7.1/7.2/7.3/7.4/7.5 (ecf: less than V by up to 10% with equivalent sf)	[1]
	(ii)	correct d value (0.84 – 0.90, no ecf) 1/2/3 sf and g/cm <sup>3</sup>	[1] [1]
			[Total: 8]
(a)	cm; s; s		[1]
(b)	1.835; 1.787; 1.753; 1.706; 1.672 (accept 3 sf) consistent sf  (3/4)		[1] [1]
(c)	and I Plots Well	s suitable (plots occupy at least ½ grid) labelled, false origin as instructed s correct to ½ small sq (–1 each error) judged best fit line suitably thin	[1] [2] [1] [1]
(d)	No and not a straight line through the origin		[1]
(e)	grea	ter accuracy (wtte)	[1]
			[Total: 10]
(a)	(i)	normal correct (by eye) (single, thin line)	[1]
	(ii)	AG = 11.5 cm ( <u>+</u> 0.1)	[1]
	(iii)	i = 26°/27°/28° (ignore unit)	[1]
(b)	(i)	CD pin separation $\geq$ 5 cm	[1]
	(ii)	bases pins may not be vertical	[1] [1]
			[Total: 6]

Page 3		Mark Scheme	Syllabu Sper
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a)	28°C unit	c value	and
(b)		ller temp drop neither, insignificant difference)	Syllabu 0625 (1) [1]
(c)	any suitable insulator		[1]
(d)	initia volur size/ room mate	3 from I temp me of water shape of beaker n temp/draughts/simultaneous timings erial of beaker sers on same surface	[3]
			[Total: 8]
(a)	correct symbols for ammeter and voltmeter correct symbols for variable resistor, lamp and resistor circuit correct		[1] [1] [1]
(b)	ammeter will show current/voltmeter shows reading		[1]
(c)	varia	ble resistor	[1]
(d)	(i)	low current/increase R of variable resistor/ lower voltage/add another lamp	[1]
	(ii)	switch off between readings	[1]
(e)	A, m	ore resistance in circuit	[1]
			[Total: 8]