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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2008 question paper

0654 CO-ORDINATED SCIENCES

0654/05

Paper 5 (Practical), maximum raw mark 45

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.

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	Pa	ge 2		Mark Scheme	Syllabus	er er		
				IGCSE – October/November 2008	0654	200		
1	(a)	(i)	tem	perature/amount of water;		Cally	1	
		(ii)	B s	hould be tallest and straight; hould be shorter and straight;		WW. PapaCambride	20.	
				hould be curved; tract 1 mark for drawings of poor quality)		[3]		
		(iii)		of table should be filled in ow, green, green;		[1]		
		(iv)	A sh B sh	es should be as follows: nould be largest number; nould be second;				
		(- · · ·		nould be third;		[3]		
		(V)	_	nification = <u>size of image;</u> size of object stitution of candidates values;		[3]		
			ans	voi,		[0]		
	(b)	box	C , p	lant grows upwards more quickly/etiolation to reach liglant bends towards the light/phototropism, to hthesis);		-		
	(c)	set up two boxes as in box B ; put a red filter across top of one and a green filter across the other; compare growth after a few days;						
				conditions identical/one controlled condition named;		[2 max]		
						[Total: 15]		
2	(a)			E correct. Do not allow if clearly not mm ralues are reversed		[1]		
	(c)	suit	able orrect	omplete sets of readings i.e. for 20 oscillations range of masses t must have at least 3 readings of 20 osc t to 2 dp		[4]		
	(e)	axe no i	s cor marks le is s	rect and labelled with units s for graph if wrong things plotted sensible correct				
		bes	t stra	ight line for their points and is reasonable st. line		[4]		
	(f)	corr	ectly	is shown on graph for any reasonable st.line calculated made up of parts, NO marks for (f)				
				rea involving the plots is used		[2]		

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(g) correctly calculated for candidate's figures accuracy - between 8 and 10 do not allow this mark if st.line mark not given

(h) any reasonable answer – one mark for each allow 'repeating more times'

[Total: 15]

3 (a) (i) white ppt Do not allow 'milky'

[1]

(ii) fizzes

pops

hydrogen only if 'pops' is given

[3]

(iii) effervescence/bubbles OR Mg disappears

it is an acid

[1]

contains sulfate allow one if sulfuric acid

[2]

(b) addition of sodium hydroxide allow Na₂CO₃ or aq NH₃ red brown ppt

iron(III)

[3]

(c) (i) decolourised/loses its colour/goes white

[1]

(ii) white ppt dissolves in the acid

[2]

(iii) dirty green ppt

[1]

(d) the iron(III) has been changed to iron(II) OR the iron has been reduced OR WTTE

[1]

[Total: 15]