MARK SCHEME for the May/June 2011 question paper

for the guidance of teachers

0653 COMBINED SCIENCE

0653/52

Paper 5 (Practical), maximum raw mark 30

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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Page 2							Syllabus	;	Paper		
				IG	CSE – Ma	y/June	2011		0653		52
1 (a)	grea	t and ater tl	han 10	0);	iperature emperatu		d (maxin	num highe	r than start	and not	
				ecorded		165,					[3]
	(i)	corre	ect calc	ulation o	f maximu	m – star	t ;				[1]
	(ii)	correct substitution ; calculation of energy with correct rounding and maximum of 3 decimal places ;									
((iii)	loss inco wate	to boili mplete er not e	osphere ng tube ; combust venly hea fecting fl	ion ; ated ;						[may 1]
((iv)	insul stirri	lation; ng;	Ū	anie ,						[max 1]
			ld flame ance be		ame and t	ube min	imised ;				[max 1]
(b)	(i)	iodin	1e:	(from) (to)	orange black/b	/red/bro lue ;	wn				[1]
	(ii)	resu	<i>lt</i> : posit	tive/yes	and subs	<i>tance</i> : st	arch ;				[1]
											[Total: 10]
2 (a) ar	nd (k)									
5 values of d and N ; rest of values of d spaced at 50mm ;								[1] [1]			
							increasi	ng distance	;		[1]
(c)	(i)	suita	ble sca		t least 4 p	ooints .					
				aight line		, vointo					[3]
	(ii)	line	extend	ed to cut	vertical a	xis ;					[1]
(d)	(i)	read	correc	tly;							[1]
	(ii)	conv	verted o	correctly	into a ma	ss;					[1]
((iii)	mas	s of rul	e 2 m ; (\	within 10 g	% of Sup	ervisor's	Results)			[1]
											[Total: 10]

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Page 3	3	Mark Scheme: Teachers' version	Syllabus	Paper				
		IGCSE – May/June 2011	0653	52				
3 (a) gre	(a) green ; (ignore reference to white)							
• •	 (b) residue is white ; (ignore reference to green) filtrate blue/blue-green ; 							
(c) (i)		ppt. ; luble in excess ;		[1] [1]				
(ii)		ppt. ; blue solution ;		[2]				
(iii)	white	e ppt. ;		[1]				
(iv)	catic anio	on is copper/Cu ²⁺ ; n is sulfate/SO4 ²⁻ ;		[1] [1]				
				[Total: 10]				

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