UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2009 question paper

for the guidance of teachers

0652 PHYSICAL SCIENCE

0652/05

Paper 5 (Practical Test), maximum raw mark 30

MMM. Hiremepapers.com

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Mark schemes must be read in conjunction with the question papers and the report on the examination.

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UNIVERSITY of CAMBRIDGE International Examinations

	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – October/November 2009	0652	05		
1	(a)	recording	g the refractive index ;		[1]		
	(d)		e drawings ; e ONE mark if only 4 ;		[2]		
		-	f i are about 60, 55, 40, 30 and 20 and r values ; E mark if only 4 values ;		[2]		
		angles o	f r decrease appropriately ;		[1]		
	(e)	Graph scale plott suita	•		[3]		
	(f)	correctly	read from graph ;		[1]		
	(g)		es correct, estimating if necessary ; not from the table provided do not allow ratio correc	tly calculated ;	[2]		
	(h)	suitable	comment; looking for some idea of accuracy of exp	periment.	[1]		
	(i)		ractive index is greater, then angles of refraction wo ber the medium the greater the ray is bent ;	uld be smaller ; o	r vice versa [2]		
		[Total: ²					

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2009	0652	05
2	(a) ac	accept anything between 0.03 and 0.08 ;			[1]
	val val val	ue for ue for ue for	or all three ; • B is half A within 2 drops ; • C is half B within 2 drops ; • C within 2 drops of Supervisors value ; • ger than 20, 2 drops becomes 3 drops		[4]
	(d) mo	ost cor	ncentrated is A ;		
	• •	needs the largest no. of drops ;		[2]	
	(e) bro	brown <u>ppt</u> . ;		[1]	
	(f) (i)	whit	e <u>ppt</u> . ;		[1]
	(ii)	dirty	white, grey or cloudy (ppt. not necessary here as r	eaction is slow) ;	[1]
	(iii)	gree	en <u>opt</u> . ;		[1]
	(g) on	e marl	k for iron(II) and one for sulfate ;		[2]
	 (h) count drops into a measuring cylinder to suitable volume (at least 5 cm³); divide by number of drops; 				[2]
					[Total: 15]