UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2007 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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



1	(a) (i)) clear drawings; with visible differences between raisins (raisin A should be larger in size and rounder than raisin B); [2]								
	(ii)	raisin A has become water has entered the	[2]							
	(iii)	solution in which raisin A was immersed was less concentrated (or a higher potential) than the raisin cells; water entered; by osmosis;								
		until cells of raisin be	[3 max]							
	(b) (i)	first row of table belo	[2]							
	(ii)	(ii) second row of table below completed correctly;;								
		test on urine	sample D	sample E	sample F	sample G				
		Benedicts test	blue	blue	red	blue				
		protein test	blue	blue	blue	lilac				
		protein test	bide	illac						
	(iii)		[2]							
	(iv)	white precipitate form sample E ;	[2]							
			[Total: 15]							
2	2 (a) stating the value of resistance/m should be the same as the supervisor									
(b)	[3]									
	(d) (i)	reater than 1.0	[1]							
	(ii)		[2]							
	S P C	axes labelled sensible scale used				[5]				

Mark Scheme

IGCSE – October/November 2007

Page 2

Paper 05

Syllabus

0654

Page 3			Mark Scheme	Syllabus	Paper				
				IGCSE – October/November 2007	0654	05			
(f)	corr		[1]					
(g)			ion needs to say that current would be greater urve but above experimental one		[2]			
						[Total: 15]			
3 (Che	nemistry question							
,	a)	Y ic	colo	urless/no change/cloudy/stayed the same NOT clea	r				
,	aj	Y is	ı						
		Z is all n	[1]						
		X is Y is							
			an a h ince	lkali orrect lose a mark to zero		[2]			
				5.7051 1050 GG. 10 20.10					
(b)	test	,						
		acid							
		test	chloride						
		it m	ment	[3]					
(c)	(i)	pink	colour disappears/colourless		[1]			
	-			colour disappears/colourless					
		(,							
				vescence ot allow clear as equal to colourless		[2]			
(d)	(i)	white	e precipitate					
			disso	olves in excess		[2]			
		(ii)	white	e precipitate					
			prec	ipitate does not dissolve		[2]			
(e)	Y co	ould k	pe sodium hydroxide					
		Z cc							
		a fo		[2]					
						[Total: 15]			