UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2007 question paper

0653 COMBINED SCIENCE

0653/05

Paper 5 (Practical Test), 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.

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 age 2			IGCSE – October/November 2007			7	0653	05		
1											
		(ii)		n A has become larger/rounder; ONE r has entered the raisin; ONE [2]							
	(b)	(i)	first	t row of table below completed correctly; -1 for each incorrect to zero [2]							
		(ii)	second row of table below completed correctly; –1 for each incorrect to zero [2]								
				test on urine	sample D	sample E	sample F	sample G			
				Benedicts test	blue	blue	red	blue			
				protein test	blue	blue	blue	lilac			
	Allow orange for red. Allow purple or violet for G protein test										
	(iii) (diabetes) sample F ; (kidney failure) sample G ;										
		(kidney failure) sample G ; [2]									
2	(a) stating the value of resistance/m should be the same as supervisor and also candidates should have the same value as e other										
	(b)	b) & (c) 5 values of y and <i>I</i>									
	(d)	(d) (i) R is correctly calculated									
		current decreases with increasing \mathbf{x} (but \mathbf{I} should be less than 1)							[1]		
		(ii) IR is calculated correctly									
		2 dp used							[2]		
	(e)	e) Graph									
		S	S sensible scale used and axes labelled								
		Р	P plotting correct (allow one error)								
		C smooth curve drawn									
		Origin included							[4]		
									[Total: 10]		

Mark Scheme

Syllabus

Paper

Page 2

Page 3	Mark Scheme	Syllabus	Paper			
	IGCSE – October/November 2007	0653	05			
Y is Z is	 X is colourless/cloudy/stayed the same Y is pink Z is pink all three need to be correct to score the mark 					
Y is Z is	an acid an alkali an alkali n incorrect –1 to zero		[2]			
acid	correctly described TWO marks acidifying not neces	·	[3]			
	test can be for sulphate showing negative therefore must be chloride there must be evidence that the candidate actually performed the test					
(c) (i)	pink colour disappears/colourless but not clear		[1]			
(ii)	pink colour disappears/colourless but not clear					
	effervescence		[2]			
(d) Z co	ould be sodium carbonate		[1]			
			[Total: 10]			

3