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International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0654 CO-ORDINATED SCIENCES

0654/05

Paper 5, maximum raw mark 45

These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published Report on the Examination.

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.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

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

CIE is publishing the mark schemes for the May/June 2006 guestion papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

				1322			
		Page 1		Mark Scheme Syllaba			
				IGCSE – May/June 2006 0654 73			
1	(a)	(i) contents column of table completed clearly and correctly;					
		Page 1 Mark Scheme Syllabit IGCSE – May/June 2006 0654 (i) contents column of table completed clearly and correctly; (ii) Observations recorded clearly, corresponding with the supervisor's (Should show cloudy in tubes 1 and 3 clear in tube 2, brown iodine in tubes 4, blue/black in tubes 5 and 6);					
	(b)	(i)	tubes	2 and 4 (only);	[1]		
		(ii)	[1]				
		(iii)	cid denatured the enzyme/prevented it from working/destroyed enzyme;	[1]			
		(iv)	[1]				
	(c)	• •	-	//white precipitate; ecome denatured;	[2]		
		. ,	the pr	colourless; otein has been broken down/digested (by the pepsin);	[2]		
		(iii)		ured by heat; n by pepsin (which is a protease);	[2]		
		[Total					
2	(a)	measured values					
		correct calculation		culation	[2]		
	(b)	mass to nearest gram		[1]			
	(c)	calculation correct		[1]			
	(d)	volume correct for figures		[1]			
	(e)	balance point			[1]		
		distance			[1]		
		mas	s corre	ectly calculated	[2]		
	(f)	calc	ulatior	n correct	[1]		
		in aç	greem	ent with supervisor's value	[1]		
	(g)	mea	surem	nents as in (a) , as it is difficult to produce a regular shape	[2]		
	(h)		•	cine in water at 80°C and remeasure e change in volume in water at 80°C	[2]		
				[Total			

	Page	: 2	Mark Scheme	Syllabu
			IGCSE – May/June 2006	0654
(a)	(i)	mass	recorded	Syllabu 0654 Banacambride
	(ii)	volum	e of gas collected	10
		in agre	eement with calculated value	N.
(b)			ater milky n dioxide	[2
,	(ii)	air		[1
(c)	expl	anatio	n and why it is dangerous	[2
		green about 1	n/blue (not just green) I0	[2
(e)	(i)	fizzing carbor	l n dioxide	[2
			/yellow out 7/8	[1
	use draw	a syrin ving	ıge	[2
		5		- [Total: 15]