UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2009 question paper for the guidance of teachers

5038 AGRICULTURE

5038/03

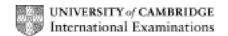
Paper 3 (Practical), maximum raw mark 30

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.

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

CIE is publishing the mark schemes for the May/June 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2			Mark Scheme: Teachers' version	Syllabus	Paper
				GCE O LEVEL – May/June 2009	5038	03
1	(a)	(i)	AS1	mark for labelled skin or sepal remains mark for identifiable diagram		[2]
			AS2	mark for labelled skin or eye bud/stored food, OWTI	≣;	
				mark for identifiable drawing		[2]
		(ii)	AS1	seed or pulp		[0]
			Λ ς 2	mark for identifiable drawing food store, flesh or OWTE		[2]
			AUZ	mark for identifiable drawing		[2]
	(b)	(i)		brick red – glucose present		101
			AS2	brick red or green – glucose present, or less glucose	9.	[2]
			(Irish potato) blue/no change no glucose			
		(ii)		yellow colour – no starch		ro1
			AS2	blue/black – starch present		[2]
		(iii)		blue colour – no protein present		
			AS2	blue colour/		NTWE 101
				accept purple – no protein present but accept slight	or some protein C	DTWE [2]
	(c)	increase surface area				ro1
		spe	ea up	reaction ; OWTE		[2]
	(d)	eye protection				
	()	mer	mention of toxic or harmful substances/			
			orrosive or burns skin/ ash hands or wear lab coat/gloves; any three			[3]
				alid points for precautions leading to accurate results.		[5]
			•			[Total: 19]
2	(a)		AS3 Red–Yellow 4.0–5.0 AS4 Blue–purple 8.0– 9.0			
				pervisors report)		[4]
		(0.	40 04	por visore report,		
	(b)	(b) soil AS3 low pH/lack of lime or calcium in soil				[4]
		IOW	рпла	ack of little of calcium in soil		[1]
						[Total: 5]
3	(a)			monium present sulphate present		
		AS	o not	present not present		[4]
	(b)	(b) AS6 Reason no sulphate or idea that chemicals could be toxic, both required for ma				
			Rea	ason – no ammonium or sulphate		
			iae	a that they could be harmful or toxic, both needed for	IIIdIK	[1]
						[Total: 6]