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)	 (a) (i) AS1 mark for labelled skin or sepal remains mark for identifiable diagram AS2 mark for labelled skin or eye bud/stored food, OWTE; 		[2]		
		mark for identifiable drawing		OWIE,	[2]	
		(ii)		seed or pulp mark for identifiable drawing food store, flesh or OWTE		[2]
			AUZ	mark for identifiable drawing		[2]
	(b)	(i)		brick red – glucose present brick red or green – glucose present, or less g	llucose.	[2]
			(Irish potato) blue/no change no glucose			
		(ii)		yellow colour – no starch blue/black – starch present		[2]
		(iii)		blue colour – no protein present blue colour/		
			7102	accept purple – no protein present but accept	slight or some protein	OTWE [2]
	(c)	increase surface area speed up reaction; OWTE				[2]
	(d)	eye protection mention of toxic or harmful substances/				
		was	sh har	ive or burns skin/ nands or wear lab coat/gloves; any three t valid points for precautions leading to accurate results.		
						[Total: 19]
2	(a)	AS4	4 Blu	d-Yellow 4.0-5.0 e-purple 8.0- 9.0 pervisors report)		[4]
		(01	as su	pervisors report)		
	(b)	(b) soil AS3 low pH/la		ick of lime or calcium in soil		[1]
						[Total: 5]
3	/2 \	ΔΟ	5 am	monium present sulphate present		
•	(a)			present not present		[4]
	(b)	AS		ason no sulphate or idea that chemicals could bason – no ammonium or sulphate	pe toxic, both required	or mark. [1]
				a that they could be harmful or toxic, both need	led for mark	[1]

[Total: 6]