UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS **GCE Ordinary Level**

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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	
			GCE O LEVEL – May/June 2009 5038	
(a)	(i)		Mark Scheme: Teachers' version Syllabus GCE O LEVEL – May/June 2009 5038 mark for labelled skin or sepal remains 5038 mark for identifiable diagram mark for labelled skin or eye bud/stored food, OWTE; mark for identifiable drawing seed or pulp mark for identifiable drawing seed or pulp	horis
		AS2	mark for labelled skin or eye bud/stored food, OWTE; mark for identifiable drawing	1
	(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 glucose.	[2]
		(Irisł	n potato) blue/no change no glucose	
	(ii)		yellow colour – no starch blue/black – starch present	[2]
	(iii)		blue colour – no protein present blue colour/	
			accept purple – no protein present but accept slight or some protein OTWE	[2]
(c)	increase surface area speed up reaction ; OWTE		[2]	
(d)		prote	ection of toxic or harmful substances/	
	corr was	osive h har	or burns skin/ nds or wear lab coat/gloves; any three	[3]
	acc	ept va	alid points for precautions leading to accurate results. [Total	: 19]
(a)			d-Yellow 4.0-5.0	
			e–purple 8.0– 9.0 pervisors report)	[4]
(b)	soil AS3 low pH/lack of lime or calcium in soil		[1]	
	1011	pri/id	[Tota	
<i>,</i> .		_		
(a)			monium present sulphate present present not present	[4]
(b)	AS		ason no sulphate or idea that chemicals could be toxic, both required for mark. ason – no ammonium or sulphate	[1]
			a that they could be harmful or toxic, both needed for mark	[1]