## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

## MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

## **5038 AGRICULTURE**

5038/32

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.

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1	(a) (i) AS1	Label for any two parts correctly labelled root hair and leaf. One mark for each (max 2) Quality of drawing (up to 2)	[4]
	<i></i>		
	(ii) AS2	Label for root hair and leaf. (1) Rhizome labelled or any correct part (1)	
		Quality of drawing (up to 2)	[4]
	(b) (i) AS1	Hairy leaves waxy cuticle (1)	
	(3) (1) 713	Rosette leaves, low to ground. (1)	
	/;;\ A C 2	Able to about / grow from rhizomo if broken (1)	
	(ii) AS2	Able to shoot / grow from rhizome if broken (1) Spreads underground (1)	[4]
			[Total: 12]
2	(a) (i) AS3	blue / no change no glucose	
	AS4	brick red or glucose green yellow	
		Both boxes complete for mark	[2]
	(ii) AS3	blue black starch	
	(ii) AS3 AS4	blue black starch	
		Both boxes complete for mark	[2]
	(iii) AS3	blue no protein	
	AS4	purple protein	
		Both boxes complete for mark	[2]
	(b) AS4	all nutrient present and protein for growth.	[2]
			[Total: 8]
3	(a) AS5	18gms 10%	
	AS6	15gms 25%	[4]
		(Working not essential)	
	(b) (i) neutral i	I not alter results	[1]
	(ii) blue/gre		
	8.0	4.0	[4]
	(c) add lime / ch	nalk / any suitable method	[1]
			[Total: 10]

Mark Scheme: Teachers' version

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Syllabus

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