MARK SCHEME for the October/November 2011 question paper

for the guidance of teachers

5038 AGRICULTURE

5038/31

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.

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

Cambridge is publishing the mark schemes for the October/November 2011 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 – October/November 2011	5038	31
1	(a) (i) AS1	Label for any two parts correctly labelled root hai One mark for each (max 2) Quality of drawing (up to 2)	r and leaf.	[4]
	(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) Rosette leaves, low to ground. (1)		
	(ii) AS2	Able to shoot / grow from rhizome if broken (1) Spreads underground (1)		[4]
				[Total: 12]
2	(a) (i) AS3 AS4	blue / no change no glucose brick red or glucose green yellow Both boxes complete for mark		[2]
	(ii) AS3 AS4	blue black starch blue black starch Both boxes complete for mark		[2]
	(iii) AS3 AS4	blue no protein purple protein Both boxes complete for mark		[2]
	(b) AS4	all nutrient present and protein for growth.		[2]
				[Total: 8]
3	(a) AS5 AS6	18gms 10% 15gms 25% (Working not essential)		[4]
	(b) (i) neutra	I / not alter results		[1]
	(ii) blue/g 8.0	reen red 4.0		[4]
	(c) add lime / o	chalk / any suitable method		[1]
				[Total: 10]