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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

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

5038 AGRICULTURE

5038/31

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.

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	Page 2			e: Teachers' version	Syllabus	er
			GCE O LEVEL -	October/November 2011	5038	Day
1	C		One mark for each	Label for any two parts correctly labelled root hair One mark for each (max 2) Quality of drawing (up to 2)		Dana Cambridge
	(ii)	(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 / gr Spreads undergr		[4]	
						[Total: 12]
2	(a) (i)	AS3 AS4	blue / no change brick red or green yellow Both boxes comp	glucose		[2]
	(ii)	AS3 AS4	blue black blue black Both boxes comp	starch starch blete for mark		[2]
	(iii)	AS3 AS4	blue purple Both boxes comp	no protein protein blete 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 ess	ential)		[4]
	(b) (i)	neutral <i>I</i> not alter results			[1]	
	(ii)	blue/g 8.0	olue/green red 3.0 4.0			[4]
	(c) add	(c) add lime / chalk / any suitable method				[1]
						[Total: 10]