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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

## MARK SCHEME for the October/November 2010 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 October/November 2010 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         | er               |
|---|--------|---|---|---|------------------|------------------|
|   |        |   | GCE O LEVEL – October/November 2010                     |   | 5038             | TO TO            |
| 1 | (a)    | age 2  Mark Scheme: Teachers' version GCE O LEVEL – October/November 2010  any suitable part include stem/leaf node/flower/seed/seed pod/root/roothair/main ro 1 mark for each suitable and correctly labelled part (max 3) 1 mark for an interpretable diagram 1 mark for a clear diagram with easily identifiable parts (max 2) |   |   |                  |                  |
|   | (b)    | clear dra   | ous root, leaf, rhizome<br>wing/diagram<br>able diagram | 1 mark each<br>1 mark<br>1 mark (max 2) |                  | [5]              |
|   | (c)    |   | reproduction/possible to soff (max 2)                   | spread underground/branc                | hes out/each pie | ece grows if [2] |
|   |        |   |   |   |                  | [Total: 12]      |
| 2 | (a)    | correctly<br>valid data   | entered data<br>a                                       | 1 mark<br>1 mark                        |                  | [2]              |

columns drawn accurately as per results table for AS3 and AS4 1 mark each (max 2)

drains freely – lots of sand/coarse large particles/space for water movement/more air

clay - large surface area/small particles fit together closely/clay does not drain

steady/moderate flow slow/little movement

fastest/free

[4]

[2]

[Total 10]

[max 6]

[2]

[Total: 8]

(b) correctly drawn and labelled axes 1 mark each (max 2)

space allows water movement

freely/humus soaks up water/ little sand to aid drainage OWTE

any TWO

any TWO

1 mark for sample

thin liquid/like water

steady flow OWTE

(b) AS7 heavy or thick/more inclined to stick OWTE

thick/slow moving viscose/dense 1 mark for each correct observation

1 mark for suitable reason

(c) AS3

(a) AS5

AS6

AS7

3

AS4