

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.

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	GCE O LEVEL – October/November 2010	5038	03

- 1 (a) any suitable part include stem/leaf node/flower/seed/seed pod/root/roothair/main root
 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) [5]
- (b) adventitious root, leaf, rhizome 1 mark each
 clear drawing/diagram 1 mark
 interpretable diagram 1 mark (max 2) [5]
- (c) asexual reproduction/possible to spread underground/branches out/each piece grows if broken off (max 2) [2]

[Total: 12]

- 2 (a) correctly entered data 1 mark
 valid data 1 mark [2]
- (b) correctly drawn and labelled axes 1 mark each (max 2)
 columns drawn accurately as per results table for **AS3** and **AS4** 1 mark each (max 2) [4]
- (c) **AS3** drains freely – lots of sand/coarse large particles/space for water movement/more air space allows water movement
 any TWO [2]
AS4 clay – large surface area/small particles fit together closely/clay does not drain freely/humus soaks up water/
 little sand to aid drainage OWTE
 any TWO [2]

[Total 10]

- 3 (a) **AS5** thin liquid/like water fastest/free
AS6 steady flow OWTE steady/moderate flow
AS7 thick/slow moving slow/little movement
 viscose/dense
 1 mark for each correct observation [max 6]
- (b) **AS7** heavy or thick/more inclined to stick OWTE
 1 mark for sample
 1 mark for suitable reason [2]

[Total: 8]