

MARK SCHEME for the May/June 2008 question paper

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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- 1 (a) gritty/sharp/rough/little clay
Any two
- (b) smooth/sticky/spongy
Any two [2]
- (c) **AS1** showing sand thin layer of clay and humus layer
AS2 little sand, more silt and clay more humus than **AS1**
Up to 2 marks for each correct diagram
1 mark for correct order, 1 mark for proportion [4]
- (d) **AS1** less than 5mm
AS2 more than 5mm
1 mark each correct [2]
- (e) **AS1** large particles lots of sand and air spaces
AS2 humus stores/holds water/clay for nutrients and holds together
1 for each correct response [max 2]
- [Total: 14]**
- 2 (a) testa – accept seed coat/micropyle/hilum – accept scar
Each label 1 mark, **must** be in correct position [3]
- (b) cotyledon/radicle/plumule
Each label 1 mark, in correct position [3]
- (c) black or blue black (1)
starch (1) [max 2]
- (d) protein (1)
Biuret solution or sodium hydroxide and copper sulphate – accept millons reagent test (1)
[max 2]
- [Total: 10]**
- 3 (a) spark plug [1]
- (b) Drawing to show:
Insulator/top terminal/gap/electrode/core electrode
Insulator with resistor/gasket/washer/thread
All clearly labelled
2 marks for diagram, 2 marks for correct labels [max 4]
- (c) Any 1 of dirty/wrong gap/cracked insulator/loose terminal/oily/wet carbon deposits/worn tip [1]
- [Total: 6]**