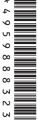


# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

CANDIDATE NAME				
CENTRE NUMBER		CANDIDATE NUMBER		



AGRICULTURE 5038/03

Paper 3 Practical Test

October/November 2010

1 hour 15 minutes

Candidates answer on the Question Paper.

Additional Materials: As listed in Confidential Instructions

#### **READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [ ] at the end of each question or part question.

For Examiner's Use			
1			
2			
3			
Total			

This document consists of 6 printed pages, 1 blank page and 1 Supervisor's Report.



				2							
1	(a)	AS1 is a common weed. three parts.	In the	space	below	carefully	draw	AS1	and (	clearly	label
											[5]
	(b)	<b>AS2</b> is also a common wadventitious root, a rhizom			pace be	elow care	fully di	raw <i>I</i>	<b>4S2</b> a	nd labe	el an

[5]

For Examiner's Use

(c)	AS2 is a more difficult weed to control than AS1.	For Examiner's
	From your observations, describe how the structure of <b>AS2</b> makes it more difficult to get rid of.	Use
	[2]	
	[Total: 12]	

## 2 AS3 and AS4 are two samples of soil.

For Examiner's Use

- Pour 100 cm<sup>3</sup> of water into a beaker.
- Plug the stem of a filter funnel with mineral wool, taking care not to block the hole.
- Fill the funnel with **AS3** to the marked line on the funnel as shown in Fig. 2.1.
- Use a retort stand, clamp and boss to hold the funnel above a 100 cm³ measuring cylinder, as shown in Fig. 2.1.
- Start the timer when starting to pour water into the funnel.
- Pour the water from the beaker into the funnel, being careful not to disturb the soil surface. Keep the funnel full of water until you have emptied the beaker.
- You are going to record how much water drains through the soil in 5 minutes.
- Record your results in Table 2.1.
- Repeat the experiment using AS4.

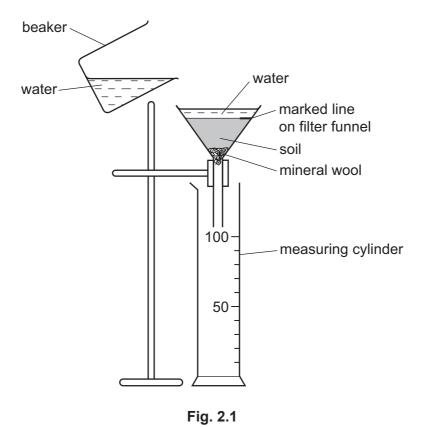


Table 2.1

(a)

sample	amount of water (in cm³) drained in 5 minutes
AS3	
AS4	

[2]

est reasons for your results for AS3 and AS4.		
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		[4]
	ons for your results for <b>AS3</b> and <b>AS4</b> .	

3 (a) AS5, AS6 and AS7 are all oil-based products used on farm engines and for maintaining tools.

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[6]

You are provided with a sample of each oil-based product in a test tube. Each test tube also contains a small ball.

Carefully observe the properties of each sample by **gently** shaking the tube and **slowly** tipping the tube upside down.

Record your observations in the table below.

oil-based product	observations of liquid	movement of ball
AS5		
AS6		
AS7		

(b) Suggest which oil would be best for protecting tools from rust. Give a reason.

[2]

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### SUPERVISOR'S REPORT

\*The Supervisor or Teacher responsible for the subject is asked to answer the following questions.

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Name the annual plant or weed used for **AS1**. common name scientific name ..... Name the perennial weed used for **AS2**. common name ..... scientific name ..... 2 State any problems encountered in providing the soils **AS3** and **AS4**. 3 Give details of any problems encountered in providing the samples AS5, AS6 and AS7. Declaration to be signed by the Principal, and completed on the top script from the Centre. The preparation of the Practical Test has been carried out so as to fully maintain the security of the examination. \*Information that applies to all candidates need only be given once.

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