

90919



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SUPERVISOR'S USE ONLY

Level 1 Agricultural and Horticultural Science, 2015

90919 Demonstrate knowledge of soil management practices

9.30 a.m. Monday 30 November 2015
Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate knowledge of soil management practices.	Demonstrate in-depth knowledge of soil management practices.	Demonstrate comprehensive knowledge of soil management practices.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–8 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL

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QUESTION ONE: VEGETABLE GARDEN**Vegetable garden**

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Crop rotation is important when growing vegetables.

(a) Explain two effects that crop rotation has on soil properties.

(1) _____

(2) _____

Before sowing seeds, the garden can be cultivated to create a seed bed.

(b) Describe THREE actions to carry out when cultivating soil to create a seed bed. Explain why each action should be done in the way you have described.

Description of the action	Reason for the action
Action (1)	
Action (2)	
Action (3)	

QUESTION TWO: CLAY SOIL**Clay soil**

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See: www.nosprayhawaii.com*

- (a) Describe a suitable drainage system for clay soil. You may illustrate your answer with a labelled diagram in the box below.



- (b) Describe TWO effects drainage can have on soil, and explain how these will affect the properties of the soil, and plant growth.

(1) _____

(2) _____

QUESTION THREE: DAIRY FARMING

Before applying nutrients to the soil, a farmer is advised to do a soil test.

Core sample taken for a soil test

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(a) Describe TWO things that a soil test will tell the farmer about the soil.

(1) _____

(2) _____

(b) Explain how liming affects the properties of soil, and how these properties affect plant growth.

**Extra space if required.
Write the question number(s) if applicable.**

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