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NEW ZEALAND QUALIFICATIONS AUTHORITY
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QUALIFY FOR THE FUTURE WORLD
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SUPERVISOR'S USE ONLY

Level 1 Agricultural and Horticultural Science, 2019

90924 Demonstrate knowledge of horticultural plant management practices and related plant physiology

9.30 a.m. Thursday 28 November 2019
Credits: Five

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate knowledge of horticultural plant management practices and related plant physiology.	Demonstrate in-depth knowledge of horticultural plant management practices and related plant physiology.	Demonstrate comprehensive knowledge of horticultural plant management practices and related plant physiology.

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 2–12 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

ASSESSOR'S USE ONLY

QUESTION ONE: VEGETABLE GARDENASSESSOR'S
USE ONLY

Garden vegetable harvest

- (a) Describe THREE actions, or steps, taken when preparing a seed bed in a vegetable garden, and explain why each action is carried out.

Description of action	Why action is carried out

QUESTION TWO: APPLESASSESSOR'S
USE ONLY

Apple trees need to be pruned every year during winter.



Apple trees in winter

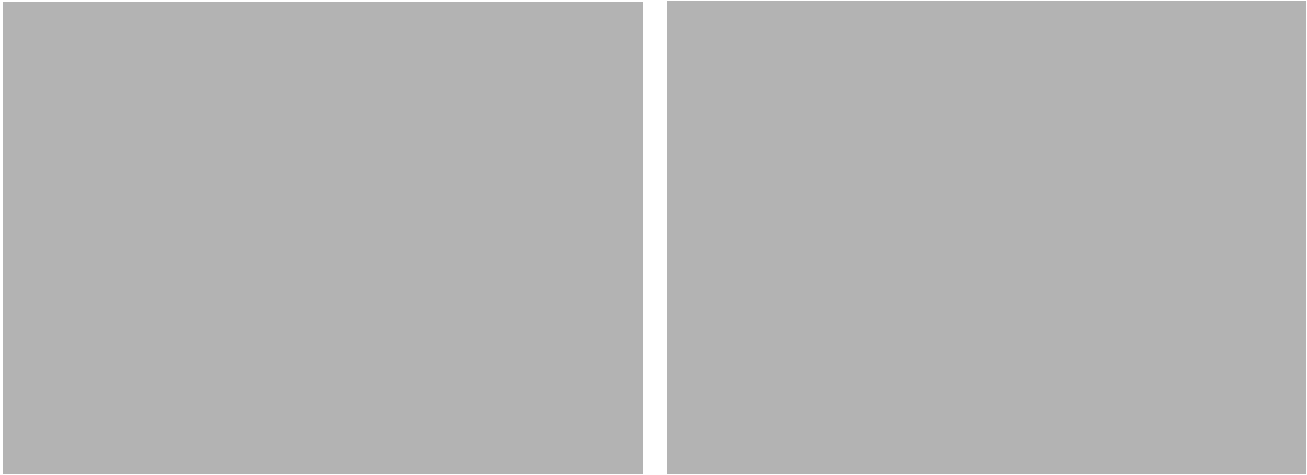
(a) Explain how to prune apple trees, and why pruning is done in winter.

Mulch is often placed under the apple trees.

(b) Describe why mulch is used, and explain how it helps plant growth and fruit production.

QUESTION THREE: GROWING FLOWERSASSESSOR'S
USE ONLY

Stopping is a common management practice carried out by growers of chrysanthemums.



Chrysanthemums in glasshouses

- (a) Describe how stopping is carried out, and explain how this affects plant growth.

- (b) Flowering plants, like all plants, need water. Describe how water enters and moves through the plant, and explain the effect it has on plant processes.

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

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QUESTION
NUMBER

90924

Acknowledgements

Material from the following sources has been adapted for use in this examination:

Page 2

Image: <https://www.hirerush.com/blog/how-to-start-a-vegetable-garden/>

Page 5

Image: <http://kentuckyhomegardens.blogspot.com/2010/04/pruning-fruit-trees.html>

Page 6

Image: <https://www.britannica.com/animal/apple-maggot>
<https://www.farmonline.com.au/story/3592663/wasp-puts-sting-into-moth/>

Page 8

Image: <https://wagwalking.com/condition/chrysanthemum-poisoning>
https://www.123rf.com/photo_38969312_large-greenhouse-or-a-specialized-dutch-cut-flower-nursery-with-lots-of-flowering-yellow-chrysanthem.html