SUPERVISOR'S USE ONLY

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Mana Tohu Mātauranga o Aotearoa New Zealand Qualifications Authority

Level 2 Agricultural and Horticultural Science 2025 91290 Demonstrate understanding of techniques used to modify physical factors of the environment for NZ plant production

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence		
Demonstrate understanding of	Demonstrate in-depth understanding	Demonstrate comprehensive		
techniques used to modify physical	of techniques used to modify	understanding of techniques used		
factors of the environment for	physical factors of the environment	to modify physical factors of the		
commercial plant production in	for commercial plant production in	environment for commercial plant		
New Zealand.	New Zealand.	production in New Zealand.		

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.

Do not write in the margins (﴿﴿﴿﴿﴿﴾). This area will be cut off when the booklet is marked.

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

QUESTION ONE: Light

Identify a plant production type and management practice of modifying light.

ıt	modification management practice:
	Describe how your chosen management practice modifies the physical factor of light, and explain how this affects plant growth.
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	Compare the use of your chosen management practice ever not using it. Consider this in to
	Compare the use of your chosen management practice over not using it. Consider this in te of improvement in both quality and crop yield .

QUESTION TWO: Irrigation

Choose a method of irrigation.

Explain how this method modifies physical factors of the environment and impacts pasture production.
Justify a farmer's decision to irrigate their farm using your chosen method, taking into acco

QUESTION THREE: Temperature

Identify a production type and a management practice that could be used to modify temperature in horticultural production.

Horticultural production type:							
Temperature management practice:							
(a)	(i)	Describe how the use of your chosen management practice modifies the temperature of the physical environment for your chosen horticultural production type.					
	(ii)	Explain how modifying the temperature improves plant growth.					

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

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