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SUPERVISOR'S USE ONLY

91290



Tick this box if you have NOT written in this booklet

Level 2 Agricultural and Horticultural Science 2022 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 techniques used to modify physical factors of the environment for commercial plant production in New Zealand.	Demonstrate in-depth understanding of techniques used to modify physical factors of the environment for commercial plant production in New Zealand.	Demonstrate comprehensive understanding of techniques used to modify physical factors of the environment for commercial plant 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 2–12 in the correct order and that none of these pages is blank.

Do not write in any cross-hatched area (
). This area may be cut off when the booklet is marked.

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

QUE	STION ONE: Healthy soil
(a)	Choose TWO techniques used to modify the physical properties of soil and explain the effect each technique has on plant growth in terms of crop yield and timing.
	Technique 1:
	Technique 2:

Select ONE of th environmental im			

QUES	TION	TWO:	Frost
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(a) Choose TWO frost protection techniques and explain how each technique is carried out.

Technique 1:			
Technique 2:			

	low do frost protection techniques affect crop yield and quality'?
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S	select ONE of the techniques from part (a) and discuss its use in terms of its social and nvironmental impact.
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QUE	ESTION THREE: Wind
(a)	Choose TWO techniques that modify the environment to provide wind protection and explain how each technique affects crop quality and timing.
	Technique 1:
	Technique 2:

c and

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

QUESTION NUMBER		write the question number(s) if applicable.	
NUMBER			

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

QUESTION NUMBER	Write the question number (5) in applicable:	
NUMBER		

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

QUESTION NUMBER	Write the question number (s) if applicable.	
NUMBER		

Acknowledgements

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

Page 2

Image (soil): https://www.waikatoregion.govt.nz/assets/Uploads/soil-v2.png

Page 4

Image (hoar frost): https://www.thenews.co.nz/wp-content/uploads/2019/07/co4hoarfrost11.jpg

Page 7

Image (trees): https://www.earthtouchnews.com/media/1947040/slope-point-trees-sheep_2016_10_31.jpg