2

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91294



Tick this box if you have NOT written in this booklet

Level 2 Agricultural and Horticultural Science 2021 91294 Demonstrate understanding of how NZ commercial management practices influence livestock growth and development

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of how management practices influence livestock growth and development in commercial production in New Zealand.	Demonstrate in-depth understanding of how management practices influence livestock growth and development in commercial production in New Zealand.	Demonstrate comprehensive understanding of how management practices influence livestock growth and development in commercial 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 2–14 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.

INSTRUCTIONS

This exam paper requires you to discuss THREE livestock species of your choice.

Choose **different livestock** for EACH of the three questions. Do not repeat information in your answers to different questions.

BEFORE choosing livestock, carefully read ALL the questions to ensure your selections will allow you to meet all the requirements.

QUESTION ONE: Shelter

Pigs
" Many areas of New Zealand are unsuitable for large-scale systems of outdoor production. Even where environmental conditions are suitable, there will be periods of adverse weather and pigs need sufficient shelter provided to enable them to cope.
Select your livestock for this question. The livestock you select for this question must be different to those you select for Question Two and Question Three.
Livestock for Question One:
(a) Describe how farmers provide shelter for your selected livestock, and explain how it improves their growth and development.

There is more room for your answer on the next page ➤

Smolt

QUESTION TWO: Feeding livestock

	nolt (young salmon) are fed small food pellets with proportions of protein and oil, which fer from the large pellets that are fed to growing salmon.
	ct your livestock for this question. The livestock you select for this question must be different to e you select for Question One and Question Three.
Liv	estock for Question Two:
	Describe the types of feed young stock are given, and explain how this affects their growth and development.
	Describe the types of feed young stock are given, and explain how this affects their growth and
Liv (a)	Describe the types of feed young stock are given, and explain how this affects their growth and
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youn	pare and contrast how g stock and adult stoc ted stock. Make refer	k. Discuss how f	eeding impacts	on the growth ar	nd development of

There is more room for your answer on the next page \blacktriangleright

QUESTION THREE: Dietary deficiencies

	Hens and eggs
Αŀ	yer hens require a large amount of calcium in their diet to produce high-quality eggs. nen deficient in calcium may produce eggs with soft shells. Pullets (young hens) are rticularly dependent on having enough calcium as they approach their first laying season.
	ct your livestock for this question. The livestock you select for this question must be different to e you selected for Question One and Question Two.
	b you deleated for Quedital one and Quedital Two.
	estock for Question Three:
Liv	estock for Question Three: Describe how a specific nutrient or mineral deficiency can cause animal health problems, and
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There is more room for your answer on the next page ➤

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ĺ	Explain how meeting the nutrient and mineral requirements for your livestock ensures optimal
,	growth and development.
,	Justify your answer by referring to livestock health, and how it affects the quantity, quality, and
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Extra space if required. Write the question number(s) if applicable.

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

Acknowledgements

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

Page 3

Image: https://www.stuff.co.nz/business/108196821/countdown-sells-kiwi-free-farmed-fresh-pork-only Text: https://www.mpi.govt.nz/dmsdocument/46048-Code-of-Welfare-Pigs, page 11

Page 6

Image: https://salmonfactswork.weebly.com/smolt.html

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Image: https://www.pinterest.nz/pin/209839663871910308/https://i.redd.it/8nbtjf9knh421.jpg

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