

91294



NEW ZEALAND QUALIFICATIONS AUTHORITY
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QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

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Level 2 Agricultural and Horticultural Science 2022

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 2–12 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.

INSTRUCTIONS

You are required to discuss THREE livestock species of **your choice**.

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

QUESTION ONE: Managing temperature

Horses are often covered with canvas or synthetic material during the colder months of the year, particularly sport horses that have been clipped.

Select your livestock for this question. The livestock you select for this question must be different to those you select for questions Two and Three.

Livestock for Question One: _____

(a) Describe TWO methods for managing the temperature of your chosen livestock.

Method 1: _____

Method 2: _____

(b) How does the temperature of your chosen livestock’s environment impact on growth and development?

QUESTION TWO: Parasites



Young lambs are commonly drenched for internal parasites every four weeks from weaning through to early winter.

Select your livestock for this question. The livestock you select for this question must be different to those you select for questions One and Three.

Livestock for Question Two: _____

(a) In what way can internal parasites cause health problems for your chosen livestock?

(b) How does treating your chosen livestock for internal parasites ensure optimal growth and development? Explain in detail the impacts on quality and quantity.

Please turn over ➤

QUESTION THREE: Genetic selection

Companies such as Livestock Improvement Corporation (LIC) provide genetic catalogues to dairy farmers to enable them to select the ideal characteristics to breed into their herd.

Select your livestock for this question. The livestock you select for this question must be different to those you select for questions One and Two.

Livestock for Question Three: _____

- (a) Choose TWO characteristics a producer would select to improve the growth and development in your chosen livestock. Explain why these two particular characteristics are important.

Characteristic 1: _____

Please turn over ►

Characteristic 2: _____

- (b) Analyse the impact that genetic selection has on the growth and development of your chosen livestock in terms of improvements to the economics of production and quantity.

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

**QUESTION
NUMBER**

Lined area for writing answers, consisting of a vertical line on the left and horizontal lines extending to the right.

Acknowledgements

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

Page 2

Image: (horseware) <https://www.canterburysaddlery.co.nz/collections/horseware-of-ireland>

Page 5

Image: (sheep drench) <https://www.ruralnewsgroup.co.nz/rural-news/rural-management/drench-resistance-is-real-and-growing>

Page 7

Image: (bulls) <https://www.lic.co.nz/products-and-services/artificial-breeding/>