

90921



NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA

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SUPERVISOR'S USE ONLY

## Level 1 Agricultural and Horticultural Science, 2012

### 90921 Demonstrate knowledge of livestock management practices

9.30 am Tuesday 20 November 2012

Credits: Five

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate knowledge of livestock management practices.	Demonstrate in-depth knowledge of livestock management practices.	Demonstrate comprehensive knowledge of livestock management practices.

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.

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

TOTAL

ASSESSOR'S USE ONLY





**QUESTION TWO: FEED MANAGEMENT**

A sheep farmer is trying to maximise lamb production. Pregnant ewes are scanned, and those carrying multiple lambs are run as a separate mob from those carrying single lambs.

- (a) Explain why the farmer would choose to separate multiple-pregnancy ewes from those carrying single lambs.

In your answer, you could consider:

- the feed requirements of the two different mobs
- ewe and lamb welfare.

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- (b) After the lambs are weaned, the farmer decides to provide supplementary feed for them. Explain why supplementary feed should be introduced to the lambs gradually.

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**QUESTION THREE: BREEDING**

Two methods for impregnating cattle are artificial insemination (AI) and putting a bull in with the herd.

- (a) Explain how semen is collected and stored for AI. In your answer, you should detail how the collection and storage techniques ensure high quality semen is available for AI.

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- (b) Describe THREE actions to carry out when artificially inseminating cattle, and explain why each action should be carried out in the way you have described. You may use labelled diagrams.

Description of the Action	Explanation of the Action
Action 1	
Action 2	
Action 3	



