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SUPERVISOR'S USE ONLY

91294



Level 2 Agricultural and Horticultural Science, 2016
91294 Demonstrate understanding of how NZ commercial
management practices influence livestock
growth and development

2.00 p.m. Monday 14 November 2016 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 2–8 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

QUESTION ONE: CALVING BEEF HEIFERS

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The most effective management practice available to beef cattle farmers to minimise assisted calvings in first-calving, two-year-old beef heifers is to select sires with a genetic tendency for low birthweight and calving ease.



Source: http://newsroom.unl.edu/announce/beef/5031/28973

(a)	Describe how selecting sires with favourable genetics for low birthweight and calving ease is carried out.
(b)	Explain how low calf birthweight and calving ease in heifers improves overall calf growth and development.

s of using low birthweight and calving-ease sires by explaining ers and its effect on the economics of production.

QUESTION TWO: NAIT TAGGING OF LIVESTOCK

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It is compulsory in New Zealand for all cattle and deer to be tagged with National Animal Identification and Tracing (NAIT) approved radio frequency identification device (RFID) ear tags.

A NAIT ear tag



cattle or de	/ using NAIT ta er.		-	-	

Justify the use of NAIT tagging to improve the quality of New Zealand's national cattle o deer herd with reference to the economics of production.	

QUESTION THREE: VELVET PRODUCTION IN STAGS

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Stag velvet is a low-volume, high-value product which must be handled with care, both on and off the animal. Velvet production is based on beam size, thickness, weight, and blood component. There are a number of management practices prior to the removal of the velvet that affect the growth and quality of velvet in stags.

Stag velvet



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ustify these management pra roduct and good economic re	actices by explaining ho eturns.	w they promote a high-qu	ality export

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