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90921



# 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

You are advised to spend 60 minutes answering the questions in this booklet.

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# QUESTION ONE: DRENCHING CATTLE

Drenching is a management practice to help maintain the health of cattle.

(a) Using the table below, describe THREE actions that are carried out when administering drench. Explain why each action should be carried out in the way you have described.

ction 2  ction 3  explain why it is important that cattle are drenched regularly.		Explanation of the Action
action 3	Action 1	
action 3		
	Action 2	
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(c)	Cattle can be drenched either with an oral drench or with a pour-on drench.	ASSESSOR'S USE ONLY
	Oral drenching	
	For copyright reasons, this resource cannot be reproduced here.	
	Source: http://www.farmanimalhealth.co.uk/fasinex-100	
	Select the better method for drenching cattle. Justify your selection by comparing and contrasting it with the other method.  In your answer, you could consider:  the accuracy of each method  management of the herd  cost.  Selected drenching method:	

## **QUESTION TWO: FEED MANAGEMENT**

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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.
(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.

There are a variety of feed types available as supplementary feed for lambs. Some of these are listed in the table below.

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Table 1 Feed analysis

Feed type	Dry matter (DM) %	Protein %	Digestibility	ME (MJ/kg DM)*
Grains (eg barley)	85	12–14	low	12–13.5
Pasture hay	85	10–12	low	8.5–9.5
Pasture silage	25–30	10–20	high	9–10.5
Sheep multinuts	85	15–18	high	13–14

<sup>\*</sup>ME = Metabolisable Energy [shown in megajoules per kilogram of dry matter (MJ/kg DM)]

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Selected feed:		

# **QUESTION THREE: BREEDING**

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

(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	

	ur answer vou could consider:
	our answer, you could consider:
'	timing management
•	costs.

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