

**THE UNIVERSITY OF MELBOURNE
ANNUAL ASSESSMENT 1999**

DEPARTMENT OF VETERINARY SCIENCE

Subject Number: 250410 Subject Title: CLINICAL SCIENCES 10

Exam Duration: 3 Hours

Reading Time: 15 Minutes

Number of Pages: 3

Authorised Materials: Examination script books will be provided. Students should have their own writing materials.

**Instructions to Students: Student's Enrolment Number must be shown on all examination script books.
Please use a separate book for each question.
Question Number(s) should be clearly marked.**

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P.T.O.

250-510

**UNIVERSITY OF MELBOURNE
ANNUAL EXAMINATION - OCTOBER 1999.**

**VETERINARY CLINICAL SCIENCES 10
Pass and Honours**

Time allowed: 3 hours
All questions to be answered
All questions are of equal value
Parts within questions are of equal value unless otherwise stated

PLEASE USE A SEPARATE BOOK FOR EACH QUESTION

- Q1.** Write notes to explain the epidemiology of each of the following diseases:
- a) pulpy kidney in lambs
 - b) yersiniosis in weaner sheep
 - c) vibriosis in ewes
 - d) hypocalcaemia in ewes.
- Q2.** Your practice produces a monthly newsletter and the practice principal has asked you to write an article for the next edition.
- Write a newsletter article on rearing orphan / pet lambs.
- Q3.** One of your clients, a mixed cropping / woolgrowing enterprise in the Victorian Wimmera, has a recurrent problem with a high mortality rate for Merino weaners over the summer months. Lambing starts in late July. Lamb marking is in mid September and weaning in late December. The lambs are weaned onto crop stubbles, and are later moved onto fallow paddocks that consist mainly of annual grasses and weeds. Last year 25% of the lambs marked did not survive until the autumn break in May.
- Describe the weaner management program you would recommend for the property. Justify your recommendations.

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VETERINARY CLINICAL SCIENCES 10 (Cont'd)

Q4. In December 1998 a farmer from Bairnsdale in East Gippsland destocked his property of 4,000 fine-wool Merino sheep after the flock was diagnosed with Ovine Johne's Disease (OJD). The farmer will be allowed to restock the property with sheep in April 2000.

The property has been stocked with cattle since December 1998, but the farmer has decided to sell the cattle and restock with sheep. He seeks your advice about purchasing profitable Merino sheep that are free of disease.

Write a report to the farmer:

- a) describing the important attributes of highly profitable sheep; and
- b) listing the important sheep diseases which should be avoided, with practical recommendations about how to reduce the risk of introducing these diseases.

Q5. One of your clients in the Ballarat area runs a self-replacing Merino flock with 2,000 spring-lambing ewes. He contacts you in early August, two weeks before lambing is due to start, to report that a third of the ewes are scouring and have severe dags. The ewes are in condition score 2.0 to 3.0 and are grazing on 800 kg dry matter / hectare of green pasture. The pasture consists of 15% sub-clover, 60% improved perennial grasses (rye and phalaris) and 25% annual weeds and native grasses. About 15 ewes, mostly those in lower condition score, have died in the past fortnight. The owner is concerned about the possibility of drench resistance on the property.

- a) List the most likely causes of scouring and deaths in this flock. Describe how you would investigate the problem further.
- b) Describe the different ways you could test for drench resistance in this flock. Comment on how practical the test(s) would be in these circumstances.

Q6.

- a) Describe the essential requirements of the Victorian Velvet Accreditation Scheme and its implications for deer, farmers and veterinarians.
- b) Write notes on the treatment and control of **two (2)** of the following diseases of temperate species of deer:
 - malignant catarrhal fever
 - weaner illthrift
 - winter death syndrome.

END OF EXAM