



Australian and New Zealand College of Veterinary Scientists

Membership Examination

June 2017

Medicine of Sheep Paper 1

Perusal time: **Fifteen (15)** minutes

Time allowed: **Two (2)** hours after perusal

Answer **ALL FOUR (4)** questions

Answer **FOUR** questions each worth 30 markstotal 120 marks

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Paper 1: Medicine of Sheep

Answer all four (4) questions

1. Outline the causative agent, epidemiology, treatment and control of:
 - a) dermatophilosis (7.5 marks)
 - b) scabby mouth (7.5 marks)
 - c) facial eczema (7.5 marks)
 - d) pink eye. (7.5 marks)

2. Answer **both** parts of this question:
 - a) Outline the recommended protocols to minimise the risk of introduction of scrapie into your country. Include in your discussion the appropriateness of these protocols based on the epidemiology of disease and the available diagnostic tests. (14 marks)

 - b) List **two (2)** other exotic disease threats to the sheep industry. For **each** exotic disease, outline a common endemic disease which is a likely differential diagnosis, and how to differentiate between the exotic **and** endemic disease. (16 marks)

3. Answer **both** parts of this question:
 - a) List **three (3)** common causes of abortion in sheep. (3 marks)

 - b) For **each** cause listed in part 3 a), outline: (9 marks per cause, total 27 marks)
 - i. diagnosis
 - ii. risk factors
 - iii. preventative measures.

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4. Discuss the predisposing factors for, and the treatment **and** management of, the following diseases:

a) ricketts (*7.5 marks*)

b) urolithiasis (*7.5 marks*)

c) *Mycoplasma ovis* infection (formerly eperythrozoonosis) (*7.5 marks*)

d) prolapsed vagina. (*7.5 marks*)

End of paper



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Paper 2

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Paper 2: Medicine of Sheep

Answer all four (4) questions

1. Lice (*Damiliinia ovis*) has been identified in a mob of ewes six months after they were treated with a synthetic pyrethroid off-shears. This treatment occurred one month prior to lambing.

Answer **both** parts of this question:

- a) Discuss likely reasons for this finding. *(15 marks)*
- b) Discuss the options available for the client to control and/or eliminate lice from this point forward. *(15 marks)*

2. A client is concerned that their flock has ovine Johne's disease (OJD).

Answer **all** parts of this question:

- a) Discuss the epidemiology of OJD. *(10 marks)*
- b) Discuss how you would investigate this flock to determine its OJD status. *(10 marks)*
- c) Outline, with reasons, appropriate management practices if:
 - i. The flock is considered free of OJD. *(5 marks)*
 - ii. OJD is diagnosed in the flock. *(5 marks)*

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3. Outline the process to investigate hogget performance in your area, including:

- the criteria by which you would judge hogget performance
- and common causes of poor hogget performance.

Justify the management strategies you would recommend to address these causes of poor hogget performance. *(30 marks)*

4. For a given sheep flock, describe the flock **and** outline the worm control program you would recommend. In your answer, justify why you would recommend any testing, timing of treatments, specific anthelmintics and management practices, **and** how you would manage anthelmintic resistance. *(30 marks)*

End of paper