



# Australian and New Zealand College of Veterinary Scientists

## Membership Examination

June 2015

## 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 marks .....total 120 marks

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# Paper 1: Medicine of Sheep

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**Answer all four (4) questions**

1. Describe the diagnosis and control of **each** of the following:
  - a) maedi-visna (7.5 marks)
  - b) eperythrozoonosis (caused by *Mycoplasma ovis*) (7.5 marks)
  - c) polioencephalomalacia (7.5 marks)
  - d) clostridial enterotoxemia. (7.5 marks)
  
2. Discuss the risk factors for the occurrence of **each** of the following conditions:
  - a) scrapie (7.5 marks)
  - b) bluetongue (7.5 marks)
  - c) campylobacter abortion (7.5 marks)
  - d) pregnancy toxemia. (7.5 marks)

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3. For **each** of the following diseases, list the key epidemiological features that are important for the control of that disease:
- a) ovine virulent footrot (7.5 marks)
  - b) ovine Johne's disease (7.5 marks)
  - c) liver fluke infection (7.5 marks)
  - d) dermatophilosis. (7.5 marks)
4. Discuss the diagnosis, treatment and prevention of **each** of the following:
- a) phalaris toxicity (7.5 marks)
  - b) haemonchosis (7.5 marks)
  - c) sheep body lice (7.5 marks)
  - d) cobalt deficiency. (7.5 marks)

**End of paper**



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# Paper 2: Medicine of Sheep

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## Answer all four (4) questions

1. Integrated Pest Management Programs (IPM) are used for parasite control programs whilst slowing the development of chemical resistance. For a farm that you are familiar with:
  - a) Describe a current IPM program for either gastrointestinal parasitism ('worms') or cutaneous myiasis ('flystrike') that meets the objectives of controlling disease while minimising the progress of resistance. *(20 marks)*
  - b) In your answer briefly describe the type of enterprise, its locality and environment as well as the timing of key husbandry activities employed. *(5 marks)*
  - c) In addition briefly address how the IPM program described will help slow the onset of chemical resistance in the target parasites. *(5 marks)*
  
2. A client contacts you concerned with poor lambing percentage in his flock.

Answer **both** parts of this question:

- a) Discuss the possible causes of low lambing percentages *(5 marks)* and how you would investigate the problem *(10 marks)*.
- b) The nutritional requirements of the ewe increase during pregnancy and lactation. Describe what they are, and the different means of supplying these requirements. For supplementary feeds, give approximate costs per head per day of any such supplements. *(15 marks)*

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3. Describe a plan to investigate a possible plant toxicity case in your area. Include in your discussion possible differential diagnoses and how these might be eliminated from your investigation. *(30 marks)*
  
4. A client contacts you concerned with illthrift in the younger sheep in her flock (3-months to 15-months of age).

Answer **all** parts of this question:

- a) List **three (3)** of the most likely differential diagnoses. *(3 marks)*
  
- b) Explain how you would approach the diagnosis of the problem. *(12 marks)*
  
- c) Include in your discussion the appropriate preventative strategies for **each condition indicated**, and the advice you would give to monitor future performance. *(15 marks)*

**End of paper**