

Australian College of Veterinary Scientists  
**Membership Examination**

June 2011

**Veterinary Behaviour**

**Paper 1**

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

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

Answer your choice of any **FOUR** (4) questions from the six questions **ONLY**

At least one question must be from **each section**

All six main questions are of equal value

Answer **FOUR** questions each worth 25 marks ..... total 100 marks

# Paper 1: Veterinary Behaviour

---

Answer your choice of any **FOUR** (4) questions from the six questions **ONLY**.  
At least one question must be from each section.

## Section A

1. Describe and discuss the neuroanatomy and interconnections of the neural circuits governing fear and anxiety. *(25 marks)*
  
2. In point form describe the type of drug, mode of action, side effects, behavioural indications and contraindications for the following **three** (3) neuropharmacological medications in dogs and cats:
  - a) clomipramine *(8½ marks)*
  - b) fluoxetine *(8½ marks)*
  - c) selegiline. *(8 marks)*

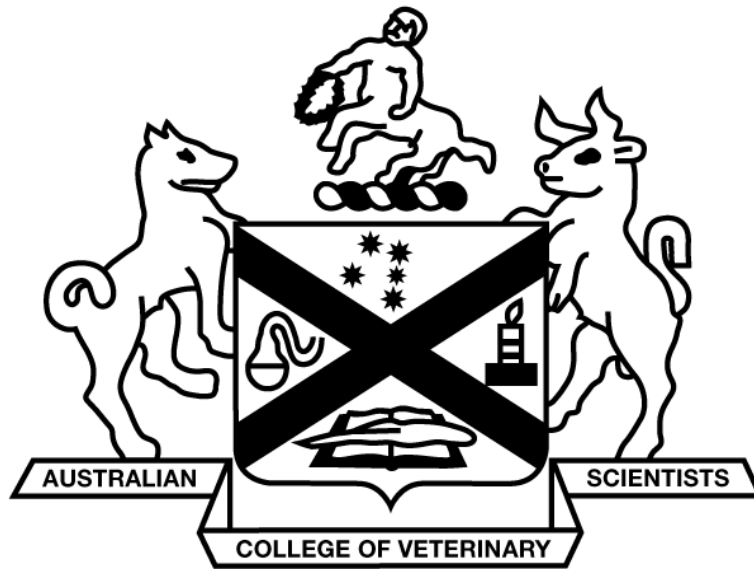
## Section B

3. Answer **all** subparts of this question:
  - a) Define habituation and sensitisation and briefly discuss the difference between the two as they apply to parrots. *(8 marks)*
  - b) Briefly define and discuss reinforcement schedules in rats. *(9 marks)*
  - c) Briefly define and discuss learned helplessness. *(8 marks)*
  
4. Define punishment and discuss its role and limitations for teaching animals. In your answer, include a discussion of the use of electronic collars for training dogs. *(25 marks)*

## Section C

5. Discuss the influence of genetics, environment and learning in the development of behaviour problems; using storm phobias as an example. *(25 marks)*
  
6. Briefly describe and discuss **all** of the following:
  - a) principles of play in horses *(8 marks)*
  - b) grooming behaviour in cats *(8 marks)*
  - c) the role of pheromones in communication, using examples from **two** (2) species. *(9 marks)*

**End of Paper**



Australian College of Veterinary Scientists  
**Membership Examination**

June 2011

**Veterinary Behaviour**

**Paper 2**

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

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

Answer your choice of any **FOUR (4)** questions from the seven questions **ONLY**

At least one question must be from **each section**

All seven main questions are of equal value

Answer **FOUR** questions each worth 25 marks ..... total 100 marks

# Paper 2: Veterinary Behaviour

---

Answer your choice of any **FOUR** (4) questions from the seven questions **ONLY**.  
At least one question must be from each section.

## Section A

1. 'Harry' is an eight-month-old Cairn terrier that is presented due to increasing dog-dog aggression at the dog park. Answer **all** subparts of this question; point form answers are acceptable:
  - a) List the questions you would ask in gathering a history. (8 marks)
  - b) Provide your differential diagnoses. (5 marks)
  - c) Indicate your prognosis, and (briefly) explain why. (5 marks)
  - d) Describe your treatment and management plan. (7 marks)
  
2. An owner presents a two-year-old, neutered-female, domestic short-haired cat for hair loss on her ventral abdomen, lower back and caudal thighs. The cat is seen to rip her hair out with her mouth. She lives with another neutered-female domestic short-haired cat. Answer **all** subparts of this question:
  - a) List the questions you will ask the owner to make a diagnosis (in gathering a history). (9 marks)
  - b) Provide your differential diagnosis list, including medical differentials. (7 marks)
  - c) Outline your treatment programme, in point form, for **one** (1) diagnosis. (9 marks)

## Section B

3. Answer **all** subparts of this question:
  - a) Discuss the measures that could be taken to improve heifer behaviour in the dairy shed. (12½ marks)
  - b) Describe the normal mating behaviour of stallions and mares in the paddock situation. (12½ marks)
  
4. Answer **all** subparts of this question:
  - a) Describe and discuss how you would halter train an alpaca. Assume the alpaca is comfortable being handled by people. (9 marks)
  - b) List and briefly discuss the behaviour issues that may be seen in the broiler shed. (8 marks)
  - c) Discuss how ewes and lambs recognise one another. (8 marks)

**Examination continued on next page**

## Section C

5. Describe and discuss how knowledge of dog behaviour may impact an urban animal management plan of a suburb of a major city. *(25 marks)*
  
6. Design an enrichment programme for a zoo animal of your choice. *(25 marks)*
  
7. Answer **all** subparts of this question:
  - a) Describe and discuss the behavioural considerations needed in designing a control programme for poisoning a pest species of your choice. *(12½ marks)*
  
  - b) Describe the factors important for humane road transport of pigs. *(12½ marks)*

**End of paper**