



Australian and New Zealand College of Veterinary Scientists

Membership Examination

June 2016

Animal Welfare

Paper 1

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

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

Answer **ALL FIVE (5)** questions

Answer **FIVE** questions each worth 20 markstotal 100 marks

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Paper 1: Animal Welfare

Answer all five (5) questions

1. Compare and contrast legislation and quality assurance schemes in their ability to ensure good welfare for animals. Use specific examples from either Australia **or** New Zealand to support your answer. (20 marks)
2. Evaluate the main ethical arguments for **and** against the use of animals in research. Include in your answer the names of the ethical frameworks being used. (20 marks)
3. A UK study found that over half of veterinarians experience one to two ethical dilemmas per week. Describe **three (3)** examples of ethical dilemmas in **three (3)** different contexts that a veterinarian might encounter **and** explain the reasons for the ethical conflict. (20 marks)
4. Observations of animal behaviour are an important tool in the assessment of animal welfare. Explain how behavioural analyses and tests can be used to assess animal welfare. (20 marks)
5. 'Health is not sufficient for good animal welfare.'

Answer **both** parts of this question:

- a) Create an argument to either support or refute this statement. (10 marks)
- b) Explain how this statement relates to conflicts between farmers and the general public. (10 marks)

End of paper



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Paper 2

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Answer **FIVE** questions each worth 20 markstotal 100 marks

Paper 2: Animal Welfare

Answer all five (5) questions

1. Answer **both** parts of this question:
 - a) Describe **three (3)** different types of environmental enrichment for zoo animals. *(10 marks)*
 - b) Briefly describe **three (3)** behavioural and **three (3)** physiological measures that could be used to assess the benefit to the animal provided by **one (1)** of the enrichment types in 1 a). *(10 marks)*

2. Compare and contrast the different approaches to the recognition and alleviation of pain in companion animals (dogs and cats) and production animals (sheep and cattle). *(20 marks)*

3. Answer **both** parts of this question:
 - a) Discuss the specific animal welfare costs that may occur during the export of live animals overseas. *(10 marks)*
 - b) Describe strategies that can be used to minimise these costs. *(10 marks)*

4. Discuss **five (5)** major factors affecting animal welfare in animals used for sport. Illustrate your answer with reference to **one (1) or more** sporting categories (e.g. greyhound racing, jumps racing etc). *(20 marks)*

5. Critique the potential animal welfare costs for cattle on modern dairy farms. *(20 marks)*

End of paper