



Australian and New Zealand College of Veterinary Scientists

Membership Examination

June 2015

Medicine and Surgery of Unusual Pets 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 & Surgery of Unusual Pets

Answer all four (4) questions

1. Answer **all** parts of this question:

a) Identify **three (3)** clinically significant zoonotic diseases of **rabbits**. For **each** disease:

- i. Name the disease, including the causative organism. *(1 mark)*
- ii. List the clinical signs of the disease in rabbits. *(1.5 marks)*
- iii. State the mode(s) of transmission *(1 mark)*
- iv. List the clinical signs in humans. *(1.5 marks)*

(5 marks for each disease, total 15 marks)

b) Identify **three (3)** clinically significant zoonotic diseases of **rodents**. For **each** disease:

- i. Name the disease, including the causative organism. *(1 mark)*
- ii. List the clinical signs of the disease in rabbits. *(1.5 marks)*
- iii. State the mode(s) of transmission. *(1 mark)*
- iv. List the clinical signs in humans. *(1.5 marks)*

(5 marks for each disease, total 15 marks)

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2. Describe the anatomy and function of the heart of a Bearded Dragon (*Pogona vitticeps*). Your answer should include:
- a) the gross anatomy of the heart and the great vessels (14 marks)
 - b) details of the cardiac cycle, including nervous control **and** details of blood flow during normal function as well as shunting. (16 marks)

Diagrams and flow charts can be used to illustrate your answer.

3. Describe the housing and management of a pet axolotl (*Ambystoma mexicanum*). In your answer, relate this information to the physiological, behavioural and ecological requirements of the animal. (30 marks)

4. Answer **both** parts of this question:

- a) Describe the antibiotic management of a 10-year-old carpet python (*Morelia spilota*) with severe bacterial stomatitis.

In your answer, include the details of your reasoning, including justifications for your antibiotic choice, route, dose and frequency of administration.

Your answer should demonstrate consideration of factors specific to this particular animal, and also factors general to the species. (15 marks)

- b) Describe the antibiotic management of a three-month-old ferret (*Mustela putorius furo*) with an infected bite wound from another ferret.

In your answer, include the details of your reasoning, including justifications for your antibiotic choice, route, dose and frequency of administration.

Your answer should demonstrate consideration of factors specific to this particular animal, and also factors general to the species. (15 marks)

End of paper



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Medicine and Surgery of Unusual Pets Paper 2

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Answer **ALL FOUR (4)** questions

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

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Paper 2: Medicine & Surgery of Unusual Pets

Answer all four (4) questions

1. A 14-year-old male Merten's monitor (*Varanus mertensi*) is presented to you with lameness and swelling of multiple digits. You suspect the animal has articular gout. As it specifically relates to this case:
 - a) Describe other clinical signs you might expect to see in this animal. (3 marks)
 - b) Describe the diagnostic process used to both confirm the diagnosis and elucidate the aetiology. (8 marks)
 - c) Describe the treatment options. (4 marks)
 - d) Discuss the aetiopathogenesis and prevention of articular gout. (15 marks)

2. An entire female four-year-old guinea pig (*Cavia porcellus*) is presented for red-tinged urine which the owner believes is due to blood. In your approach to this case:
 - a) List the relevant questions you would ask the owner. (3 marks)
 - b) Describe the relevant parts of the physical examination you would perform. (3 marks)
 - c) Discuss recommended diagnostic testing. (6 marks)
 - d) List the differential diagnosis. (4 marks)
 - e) Discuss in depth your treatment and ongoing preventative plan for urolithiasis. (14 marks)

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3. A seven-month-old kangaroo joey is presented to you with a five day history of anorexia, abdominal distension and diarrhoea. She has been seen to rub and lick at her abdomen, seems agitated, and will occasionally pass wind. Her appetite is decreased. Physical examination reveals the joey is 10% dehydrated, with faecal staining on the perineum and the underside of her tail. She is still being bottle fed three times daily and has access to solids.

Answer **all** parts of this question:

- a) List the differential diagnoses for this case. (5 marks)
 - b) Describe the supportive care and symptomatic treatment you would provide in the first 12 hours after presentation. (14 marks)
 - c) List the diagnostic tests you would initially perform and discuss how **each** test will help you to reach a final diagnosis. (8 marks)
 - d) For **each** of your differential diagnosis, list the specific therapy for that condition. (3 marks)
4. An entire female eight-year Angora rabbit is presented with a 24 hour history of lethargy and inappetence. Initial examination reveals her hair coat is matted and there is malodorous faecal and blood staining around the perineum. On closer inspection you detect fly larvae (maggots) in the fur surrounding the perineum. The owner has two other rabbits.

Answer **all** parts of this question:

- a) Discuss your treatment of this case over the initial 24 hours. (10 marks)
- b) List the predisposing factors to myiasis, and how you would determine which are most likely in this case. (15 marks)
- c) What preventative plan would you implement for this rabbit, and the two others in this household? (5 marks)

End of paper