



Australian and New Zealand College of
Veterinary Scientists

Membership Examination

June 2022

Equine Dentistry

Paper 1

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

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

Answer **ALL FOUR (4)** questions

Answer **FOUR (4)** questions, each worth 30 markstotal 120 marks

Paper 1: Equine Dentistry

Answer all four (4) questions

1. Answer **all** parts of this question:
 - a) Describe the nasal conchal bullae (NCB), and include in the description where in the equine head they are found. *(5 marks)*
 - b) Explain the clinical significance of nasal conchal bullae disease. *(10 marks)*
 - c) Briefly describe & comment on advantages & disadvantages of **two (2)** techniques for diagnosing nasal conchal bullae empyema. *(10 marks)*
 - d) List at least **five (5)** treatment options for NCB empyema. *(5 marks)*
2. List and briefly discuss the advantages and disadvantages of both the analgesic medications as well as the administration options for those medications when used for dental extractions in the horse. *(30 marks)*
3. Outline a preventative protocol for an equine dentistry practice that is designed to prevent the spread of infectious equine respiratory diseases. *(30 marks)*
4. Answer **all** parts of this question:
 - a) Discuss the pathophysiology of equine peripheral caries. Include **five (5)** possible risk factors in your discussion. *(20 marks)*
 - b) Discuss the treatment and/or management of equine peripheral caries. *(10 marks)*

End of Paper



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Paper 2

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Answer **ALL FOUR (4)** questions

Answer **FOUR (4)** questions, each worth 30 markstotal 120 marks

Answer all four (4) questions

- 1) The secondary dentin overlying pulps 2 and 4 of 207 in a 12-year-old Quarter horse gelding are noticed on oral examination to be darker in colour than the surrounding teeth, with an abnormal, dull appearance and feed material adhering to the pulp dentine.
 - a) List further diagnostic tests that would aid the investigation of this case **and** describe what pathological signs may be revealed by these investigations. *(10 marks)*
 - b) List the treatment options for the pathological condition(s) that may be identified by the diagnostic tests in the previous question. Include in your answer any advantages and disadvantages of the treatments you list. *(20 marks)*
- 2) You have been called to examine a 23-year-old horse with a unilateral malodourous green nasal discharge. On initial examination you also note the horse to have hypertrichosis (long hair coat).
 - a) Outline the ideal initial examination, investigation, and treatment of this horse. *(15 marks)*
 - b) Outline the long-term management of this case, including that of any co-morbidities. *(15 marks)*
- 3) You are presented with a 12-year-old pony that has a history of weight loss and right sided unilateral mucopurulent nasal discharge. It has not had any dental treatment while owned by the current owners (11 years). On oral examination, you find that there is a missing 106 with a fistula into the nasal cavity and a large overgrowth of the 406 impacting into the maxilla.
 - a) List **three (3)** additional scenarios in which an oronasal or oroantral fistula could occur. *(3 marks)*
 - b) List the fundamental steps of an oronasal fistula repair. *(4 marks)*
 - c) List **five (5)** different methods of treating an oral fistula. *(5 marks)*

- d) For the pony described in this case, choose a repair method that suits the type of fistula present and justify your choice. Briefly describe the initial dental treatment, method of repair of the fistula, including a plan for aftercare and monitoring. (18 marks)
- 4) You are presented with a **three (3)** year-old Arabian cross quarter horse filly that has a painful bony swelling on the left side of her face, just dorsal to the rostral aspect of the facial crest.
- a) List the differential diagnoses for this signalment. (5 marks)
- b) On oral exam you find that the 508 and 608 teeth are markedly smaller than the 109 and 209, which has allowed feed entrapment and deep periodontal pockets between the upper 08-09's. The 608 has grade 1 mobility. Discuss the investigation & management options of this case including the prognosis for this filly. (25 marks)

End of paper