

1. Please make a description about the pathophysiology and clinical findings of hypokalemia in cats with chronic kidney disease. (10%)
2. Please describe the etiology, sign and treatment of small intestine inflammatory disease and large intestine inflammatory disease. (10%)
3. Please describe the clinical signs, features of diagnostic images and electrocardiograms associated with dilated cardiomyopathy in dogs. (10%)
4. Please describe the clinical signs, laboratory abnormalities, the diagnostic tests (the advantages and disadvantages of different tests), treatment and prevention of the "Ehrlichia canis infection" in dogs? (10%)
5. Please describe treatment options for Canine grade III mast cell tumor (6 %)
6. Please describe immunotherapy in oncology (4 %)
7. Please describe the etiology, clinical sign, diagnostic strategies and treatments of Osteochondritis Dissecans in dogs. (10%)
8. Both the Subcutaneous Ureteral Bypass device and the 2.5-Fr Ureteral stent have been applied for some upper urinary disorders in cats.
  - (A) Please describe characteristic features of the two devices. (4%)
  - (B) Please list advantages and disadvantages of the two devices. (6%)
9. Please list 2 common ways of managing canine acute glaucoma in ocular emergency (5%).
10. Please explain the advantages and disadvantages of closed reduction for the fracture repair. (3 %)
11. Please describe "total ear canal ablation" and three possible surgical complications. (7 %)
12. A dog presented with dragging the left forelimb after a car accident 3 days ago. The results of neurological examination are summarized. (0=absent, 1=reduced, 2=normal, 3=increased, 4=exaggerated, NA=not applicable, NE=not examined)

|                         | Right forelimb | Left forelimb  | Right hind limb | Left hind limb |
|-------------------------|----------------|----------------|-----------------|----------------|
| Postural reaction tests | 2              | 0              | 2               | 2              |
| Withdrawal reflex       | 2              | 0              | 2               | 2              |
| Patellar reflex         | NA             | NA             | 2               | 2              |
| Muscle bulk             | 2              | 1 (whole limb) | 2               | 2              |
| Muscle tone             | 2              | 1              | 2               | 2              |
| Sensation               | 2              | 0              | 2               | 2              |

Cranial nerve exam revealed small pupil size and 3<sup>rd</sup> eyelid protrusion in the left eye. The rest of neurological examination was unremarkable.

(A) Where is the lesion localization? Please explain how you achieve the conclusion. Please also explain the findings on the cranial nerve exam in relation to your lesion location. (3%)

(B) When performing the cutaneous trunci reflex in this dog, what are the most likely results? Please make a table to express the results. (2%)

| Cutaneous trunci reflex                                       | Reaction at right side | Reaction at left side |
|---|------------------------|-----------------------|
| Pinch the right paraspinal region at the level of L5 vertebra |                        |                       |
| Pinch the left paraspinal region at the level of L5 vertebra  |                        |                       |

13. 請簡述 HCM (Hypertrophic Cardiomyopathy) 貓咪在麻醉設計上的注意事項。(5%)
14. 請說明外科切除狗皮膚 MCT 的設計原則。(2.5%)
15. 外科手術在腫瘤治療中所扮演的角色。(2.5%)

試題隨卷繳回