

1. Please evaluate each statement's correctness and provide explanations or correct statement, please be brief. (3 points for each statement, one extra point for over 5 correct answers) (25 point)
  - a. Hypertrophic osteopathy is thought to be related to hepatic metastasis.
  - b. Hypocalcemia is commonly seen associated with pancreatic tumor.
  - c. Hyperestrogenism is commonly related to seminoma, clinical symptoms including increase aggression and muscular mass.
  - d. Elevated alkaline phosphate is related to many types of tumor including malignant melanoma.
  - e. Thrombocytopenia in neoplastic disease is caused by renal failure.
  - f. Polycythemia is a chronic condition related to splenic tumor, which can cause severe heart failure due to hypotension.
  - g. In order to control the progression of chronic renal failure, potassium citrate can help control alkalosis, increase phosphorous loading can help to preserve renal excretion function.
  - h. Under septic condition, increased respiratory rate is due to the increase loading of potassium and alkaline loading.
2. Please explain the methods of blood pressure measurement in dogs and cats (5 points), and clinical applications of blood pressure in management of small animal diseases (10 points).
3. Please state your idea about managing of feline chronic renal failure (10 points).
4. Please describe the symptoms associated with intervertebral disc protrusion, its prognosis, and treatment options. (10 points)
5. Explain the differences between cancellous screw and cortical screw, and the differences between dynamic compression plate (DCP) and locking compression plate (LCP) (10 points)
6. What are your anesthetic considerations for total ear ablation surgery of a 14 years old male Cocker Spaniel with fair physical condition? (10 points)
7. A dog is presented with red eye, corneal edema, photophobia, and blepharospasm. (1) Please list three most common causes of "painful" red eye; (2) Please describe how to make step-by-step diagnosis of corneal edema (10 points).
8. Please briefly describe the diagnosis and management of gastric hiatal hernia. (10 points).