

Sample Multiple Choice Questions from the 2007 exam – Clinical Pathology

1. Which is contained in dense bodies of platelets?
 - A. Serotonin
 - B. Fibronectin
 - C. Fibrinogen
 - D. β -thromboglobulin
 - E. High-molecular-weight kininogen

2. In pigs, which deficiency is associated with microcytic, hypochromic anemia?
 - A. Folate
 - B. Cobalt
 - C. Niacin
 - D. Copper
 - E. Vitamin E

3. All are true regarding hepcidin EXCEPT:
 - A. Hepcidin knock-out mice develop severe microcytic anemia
 - B. Hepcidin expression increases with inflammation
 - C. Hepcidin inhibits iron release from macrophages
 - D. Serum hepcidin correlates with serum ferritin
 - E. Hepcidin expression decreases with anemia

4. Which statements about predictive values are true if disease incidence is 1%, and diagnostic test sensitivity and specificity are both 99%?

1. Predictive value of a positive test is >90%
2. Predictive value of a positive test is <60%
3. Predictive value of a negative test is >90%
4. Predictive value of a negative test is <60%
5. Predictive values cannot be estimated from these data

- A. 1, 3
- B. 1, 4
- C. 2, 3
- D. 2, 4
- E. 4, 5

5. In cats, which is the most appropriate interpretation of these arterial blood gas data?

Parameter	Patient	Reference interval
pH	7.50	7.35 - 7.44
pCO ₂ (mm Hg)	22	30 - 40
pO ₂ (mm Hg)	98	81 - 103
HCO ₃ (mmol/L)	14	19 - 25
Base excess (mmol/L)	-5	0 ± 3

- A. Mixed metabolic and respiratory alkalosis
- B. Metabolic acidosis with respiratory compensation
- C. Metabolic alkalosis with respiratory compensation
- D. Respiratory acidosis with metabolic compensation
- E. Respiratory alkalosis with metabolic compensation

6. In rats, all are serum analytes that reflect cholestasis EXCEPT:
- A. Total bile acids
 - B. 5'-nucleotidase
 - C. Alkaline phosphatase
 - D. Alanine aminotransferase
 - E. Gamma-glutamyl transferase
7. Which antigen is expressed on canine gastrointestinal stromal tumors but not leiomyomas?
- A. Smooth muscle actin
 - B. MUM/IRF-4
 - C. MCT-1
 - D. CD117
 - E. S-100
8. Which architectural pattern is associated with cytologic specimens from sarcomas?
- A. Acinar
 - B. Palisade
 - C. Papillary
 - D. Storiform
 - E. Trabecular