

等別(級)：簡任

類科(別)：獸醫

科目：獸醫實驗診斷學研究

考試時間：2 小時

座號：_____

※注意：(一)禁止使用電子計算器。

(二)不必抄題，作答時請將試題題號及答案依照順序寫在試卷上，於本試題上作答者，不予計分。

- 一、請敘述 *Toxoplasma gondii* 感染的實驗室診斷異常特徵變化。(25 分)
- 二、請詳細舉出尿液分析 (Urinalysis) 之檢查項目，並分別詳細說明其判讀診斷意義。(25 分)
- 三、請敘述血清蛋白電泳的臨床應用及其判讀診斷意義。(25 分)
- 四、病例判讀：請依據題目所敘述之病史、臨床症狀及實驗室檢查結果判讀診斷下列病例。(25 分)

Dog : Eight-year-old Male Canine Bull Terrier.

History : Intermittent vomit, anorexia and jaundice of three weeks' duration.

Physical examination : Scleral membranes are icteric and hepatomegaly is present.

Initial assessment : Vomiting and anorexia are nonspecific signs most commonly associated with hepatic, pancreatic, renal or intestinal disease. Presence of icterus and hepatomegaly suggests that liver is of particular interest. Hematology and chemistry profiles are warranted with particular emphasis on aforementioned organ systems.

Laboratory data :

Hematology : PCV = 32%, Hb = 11.1 g/dL, RBC = $4.87 \times 10^6/\mu\text{L}$, Reticulocytes = 1.3%, WBC = 39,800/ μL , Neutrophils (Band) = 400/ μL , Neutrophils (Segmented) = 35,800/ μL , Eosinophils = 0/ μL , Lymphocytes = 2,400/ μL , Monocytes = 1,200/ μL .

Serum biochemistry : BUN = 13.5 mg/dL, Creatinine = 0.6 mg/dL, Glucose = 85 mg/dL, T. bilirubin = 4.6 mg/dL, D. bilirubin = 3.9 mg/dL, Total protein = 7.0 g/dL, Albumin = 2.8 g/dL, ALT = 449 U/L, ALP = 800 U/L, Amylase = 568 U/L, Sodium = 146 mmol/L, Potassium = 4.5 mmol/L, Chloride = 120 mmol/L, Calcium = 10.2 mg/dL, Phosphorus = 4.2 mg/dL, Cholesterol = 480 mg/dL, Triglyceride = 180 mg/dL.

Urinalysis : Color : Orange, Turbidity : Clear, Sp.gr = 1.020, pH = 6.5, Protein : Negative, Glucose : Negative, Ketone : Negative, Bilirubin = 4+, Occult blood : Negative, Urine sediment examination : WBC : Negative, RBC : Negative, Epithelial cells : Negative, Bacteria : Negative, Casts : Negative, Crystals : Bilirubin.