



Benha University  
Fac Vet Medicine  
Animal Med Dept  
Vet. Internal Medicine  
General Animal Medicine Exam  
Food quality and control program



Time allowed: 3 h  
Date: 2-٦-2016  
Total marks: 50 marks

جامعة بنها  
كلية الطب البيطري  
قسم طب الحيوان  
الامراض الباطنة  
امتحان الباطنة العام – برنامج جودة ومراقبة الاغذية

Answer model

Please answer all questions

1- Describe the clinical signs of the following:

a. Pneumonia in calves (5 marks)

1-coughing, nasal discharge

2-fever, anorexia, dullness and depression

3-abnormal lung sound

b. Zinc deficiency in cattle (5 marks)

1-abnormal hair growth with alopecia

2-crackles at hooves

3-parakeratosis

4-decreased growth rate and emaciation

2- Outline the causes and pathogenesis of the following:

a. Milk fever (5 marks)

Causes: reduced calcium serum level specially at the periparturient period

Pathogenesis: 3 stages occur due to reduced calcium level:

-predromal stage: with tremors at face and shoulder

-sternal recumbency: reduced muscle tone with animal unable to stand leads to recumbency at the sternum with head and neck reflected on the shoulders (Pathognomonic)

-lateral recumbency: loss of reflexes

b. Urolithiasis in steers (5 marks)

The cause is related to

- Diet: high phosphate due to conc. Feeding
- Hormonal: early castration reduced the testosterone
- Season: cold seasons
- Reduced water intake leads to urine concentration with crystallization
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3- Plan the line of diagnosis for the following:

a. Stomatitis in dogs (5 marks)

History of physical chemical or infectious causes

Clinical signs of salivation, abnormal breath odor, enlarged regional LNs, anorexia

b. Copper deficiency in ruminant (5 marks)

History of high molybdenum

Clinical signs of unthriftiness, falling teats and hair discoloration

Estimation of serum copper level and SOD: lower than normal

4-

- a. Describe the treatment of hypomagnesemia in cattle (5 marks)

SC injection of 10% mag sulphate for 5 days

Neurazin injection

Vitamin b injection

- b. Clinical case: You are called to examine a lactating cow suffered from inappetance, pale mucosa with abnormal urine characters. Plan your diagnosis, differential diagnosis and line of treatment? (15 marks)

The suspected case could be:

-copper def

-hypophosphatemia

Most suspected is hypophosphatemia