



The Royal College of **Pathologists**

Pathology: the science behind the cure

## **Part 1 examination**

### **Veterinary Pathology: Second paper Species Group Pathology, Small Domestic Animals**

**Tuesday 23rd September 2013**

**Time allowed: 3 hours**

#### **Section 1- Essay questions**

**Candidates must answer THREE questions ONLY in this Section. Candidates are advised to allocate approximately 40 minutes to each essay attempted in this Section.**

1. How would you differentiate the various canine and feline cutaneous round cell neoplasms? Include any differentiating clinical features as well as cytological, histological changes and the use of any supplementary diagnostic tests.
2. Outline the differential diagnosis in a case of unilateral ovarian enlargement in a bitch. Does immunohistochemistry help in cases of neoplasia?
3. Describe the pathology, biological behaviour and differential diagnosis of oral tumours that occur in the dog.
4. Discuss the aetiology and diagnostic features of metabolic diseases in the cat and dog. Describe the salient pathological findings and available diagnostic tests
5. Describe the clinical and microscopic findings associated with degenerative CNS conditions in the dog. Discuss the underlying pathogenesis

## **Section 2 - Short notes questions.**

**Candidates must answer THREE questions ONLY in this Section**

1. Write short notes on the pathology of 3 of the following:
  - a) Spindle cell tumours and their grading in dogs.
  - b) Triaditis in cats.
  - c) Sebaceous adenitis in dogs.
  - d) Feline cardiomyopathy
  
2. Write short notes on 3 of the following:
  - a) Primary liver tumours in dogs
  - b) Use of immunohistochemistry in the diagnosis of canine melanotic tumours.
  - c) Feline infectious peritonitis in cats.
  - d) Feline immunodeficiency virus
  
3. Write short notes on 3 of the following:
  - a) Diseases of the nasal cavity in adult dogs
  - b) Mammary tumours in cats
  - c) Lesions affecting the thyroid gland in the dog
  - d) Lymphadenopathy in the cat
  
4. Write short notes on 3 of the following:
  - a) Proliferative vascular lesions in the cat
  - b) Calcinosis cutis and calcinosis circumscripta in dogs
  - c) Masticatory myositis in the dog
  - d) Immune mediated joint disease
  
5. Write short notes on 3 of the following:
  - a) Inflammatory intestinal conditions in the dog
  - b) Pleural effusion in the cat
  - c) Nutritional bone disease in the dog and cat
  - d) Canine alopecia



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## **Part 1 examination**

### **Veterinary Pathology: Second paper Species Group Pathology, Small Domestic Animals**

**Tuesday 24th September 2013**

**Time allowed: 3 hours**

#### **Section 1- Essay questions**

**Candidates must answer THREE questions ONLY in this**

**Section.** Candidates are advised to allocate approximately 40 minutes to each essay attempted in this Section.

1. Describe the pathology of the immune-mediated skin diseases of the dog, referring to named examples.
2. Write an essay on the pathology and pathogenesis of liver disease in the cat.
3. Write an essay on joint disease in the dog.
4. Discuss the pathology and pathogenesis of viral diseases of the cat in the United Kingdom.
5. Discuss the pathology and pathogenesis of hypercalcaemia in dogs.

**Please turn over for Section 2 - Short notes questions**

## **Section 2 - Short notes questions.**

**Candidates must answer THREE questions ONLY in this Section; all three parts of each question to be answered**

1. Write short notes on the following:
  - a) Tumours of the reproductive tract of the bitch.
  - b) Leishmaniasis in dogs.
  - c) Diseases associated with eosinophils in cats.
  
2. Write short notes on the following:
  - a) Parvovirus infections in dogs and cats.
  - b) Brain tumours in cats.
  - c) Amyloidosis in cats.
  
3. Write short notes on the following:
  - a) Congenital cardiac abnormalities in dogs.
  - b) Ophthalmic tumours in cats.
  - c) Fungal diseases in dogs.
  
4. Write short notes on the following:
  - a) Copper-storage disease in dogs.
  - b) Mycobacterial- associated disease in cats.
  - c) Splenic lesions in adult dogs.



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## Part 1 examination

### Veterinary Pathology: Second paper Species Group Pathology, Small Domestic Animals

Tuesday 25th September 2012

Time allowed: 3 hours

#### Section 1- Essay questions

**Candidates must answer THREE questions ONLY in this**

**Section.** Candidates are advised to allocate approximately 40 minutes to each essay attempted in this Section.

1. Describe the pathology and pathogenesis of common skeletal conditions which may affect young growing dogs. Explain why young dogs are susceptible to the conditions you described.
2. Give an account of the pathology and pathogenesis of immune-mediated conditions in the cat, using named examples.
3. Discuss the pathogenesis of chronic diarrhoea in dogs and describe underlying pathological changes associated with this condition.
4. Write an essay on infectious respiratory diseases in cats and dogs.
5. Outline how you would undertake a post mortem investigation of a dog found dead in a pool of blood whilst staying in a boarding kennel. Indicate the differential diagnoses, and relevant gross and microscopic findings, together with a note on what diagnostic samples you would take.

**Please turn over for Section 2 - Short notes questions**

## **Section 2 - Short notes questions.**

**Candidates must answer THREE questions ONLY in this Section; all three parts of each question to be answered**

1. Write short notes on the following:
  - (a) Syringomyelia in dogs.
  - (b) Urolithiasis in dogs.
  - (c) Feline leprosy.
  
2. Write short notes on the following:
  - (a) Neosporosis in dogs.
  - (b) Neoplasia affecting the heart in dogs.
  - (c) Uterine disease in cats.
  
3. Write short notes on the following:
  - (a) Pancreatic disease in cats.
  - (b) Demyelinating diseases in dogs.
  - (c) Hepatocutaneous syndrome.
  
4. Write short notes on the following:
  - (a) Porto-systemic shunts and their diagnosis in dogs.
  - (b) Neuroendocrine tumours in dogs and cats.
  - (c) Glomerulonephropathy in cats.
  
5. Write short notes on the following:
  - (a) Sebaceous adenitis in dogs.
  - (b) Use of immunohistochemistry in the diagnosis of canine and feline melanotic tumours.
  - (c) Congenital heart abnormalities in cats.



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## **Part 1 examination**

### **Veterinary Pathology: Second paper Species Group Pathology, Small Domestic Animals**

**Tuesday 20th September 2011**

**Time allowed: 3 hours**

#### **Section 1- Essay questions**

**Candidates must answer THREE questions ONLY in this Section.** Candidates are advised to allocate approximately 40 minutes to each essay attempted in this Section.

1. Describe the pathology and biological behaviour of the oral tumours that occur in the dog.
2. Write an essay on the cardiomyopathies of the cat, including a note on the comparisons with the same condition in the dog.
3. Describe the pathology and pathogenesis of Mycobacterial infections in the cat.
4. Describe and discuss the gross and histopathological diagnostic features associated with diseases or conditions that may have led to “sudden death” in an adult cat.
5. Describe the macroscopic and microscopic pathology of vesiculopustular skin disease in the dog. Discuss the differential diagnosis and confirmation of this condition.

Please turn over for Section 2 - Short notes questions

## **Section 2 - Short notes questions.**

**Candidates must answer THREE questions ONLY in this Section.**

1. Write short notes on the following:

- a) C-Kit and Ki67 markers in mast cell disease in the dog.
- b) Amyloidosis in the cat.
- c) Toxoplasmosis in the cat.

2. Write short notes on the following:

- a) Lungworm infestation and the possible sequelae in dogs.
- b) Brain tumours in cats.
- c) Necrosis of the proximal femur in dogs.

3. Write short notes on the pathology of the following:

- a) Spindle cell tumours and their grading in dogs.
- b) Triaditis in cats.
- c) Pemphigus erythematosus in dogs.

4. Write short notes on the pathological aspects of the following:

- a) Fibrosarcomas in the cat.
- b) Bordetella bronchiseptica infection in dogs.
- c) Nodular dermatofibrosis in German Shepherd dogs.