



THE COLLEGES OF MEDICINE OF SOUTH AFRICA

Incorporated Association not for gain
Reg No 1955/000003/08

Part I Examination for the Fellowship of the
College of Pathologists of South Africa – Anatomical Pathology



1 February 2018

1 Paper only

(3 hours)

All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the one answer)

- 1 a) Classify the types of glomerular disease in systemic lupus erythematosus (SLE) and discuss the key morphological patterns of each type. (15)
- b) Write notes on necroptosis under the following subheadings
- i) Main distinguishing features in the pathogenesis of apoptosis and pyroptosis, respectively, from necroptosis. (1)
- ii) Six conditions in which necroptosis is recognised as an important cell death pathway. (3)
- c) With reference to cutaneous lesions of the pemphigus group of blistering disorders
- i) Write notes on the pathogenesis of pemphigus vulgaris. (3)
- ii) Mention four other clinico-pathologic variants within the pemphigus group of disorders. (2)
- iii) Briefly describe the typical direct immunofluorescence staining pattern of the perilesional skin in a patient with pemphigus vulgaris. (1)
- [25]
- 2 a) Discuss the mechanisms of myocardial infarction in the absence of typical complicated coronary atherosclerosis, giving suitable examples. (12)
- b) Write notes on the clinico-pathologic features of congenital syphilis. (8)
- c) Write notes on receptor tyrosine kinase under the following subheadings
- i) Three mechanisms or types of genetic mutation through which it may constitutively activate. (1.5)
- ii) Salient examples of clinical significance that match each type of genetic mutation respectively. (3.5)
- [25]
- 3 a) Describe the macroscopic and microscopic features of Crohn's disease. (13)
- b) Discuss the microscopic features of autoimmune hepatitis. (5)
- c) Describe the microscopic morphology of classic seminoma and include the immunohistochemical markers that assist in the diagnosis. (7)
- [25]

- 4 a) Discuss multiple endocrine neoplasia type 1 under the following headings
- i) Genetics. (2)
 - ii) Clinicopathological features. (5)
- b) Discuss non-neoplastic lesions of the prostate that could be confused with adenocarcinoma. (9)
- c) Briefly discuss the 3 most important clinicopathologic effects of hypertension on the brain. (9)
- [25]