



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 – Haematology



28 June 2018

Paper 1

(3 hours)

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

- 1 Discuss the role of monoclonal antibodies and labelled probes in the diagnosis of haematological disorders. Include applications and examples in your answer. [25]
- 2 Describe the structure and function of the spleen. [25]
- 3 Write notes on
 - a) Pulmonary complications associated with blood transfusion. (13)
 - b) Transfusion associated graft versus host disease. (12)[25]
- 4 Write short notes on the following
 - a) The evidence for an auto-immune aetiology in aplastic anaemia. (15)
 - b) The role of the I and i antigen and antibody system in haematological practice. (10)[25]



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Paper 2

(3 hours)

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

- 1 Write short notes on
- a) Pathophysiology of Anaemia of Chronic Disorders. (12)
 - b) Calreticulin mutations. (8)
 - c) DNA methyltransferase 3A (DNMT3A). (5)
- [25]
- 2 Describe the processes by which iron is absorbed by the gut, and explain how these processes are controlled. [25]
- 3 **Please answer questions 3a) and 3b) in separate books**
Write short notes on
- a) Severe combined immunodeficiency. (15)
 - b) The changes in cell surface phenotype that accompany erythroid maturation. (10)
- [25]
- 4 **Please answer questions 4a) and 4b) in separate books**
Discuss briefly
- a) The concept of intracellular proteolysis and the role of ubiquitin. (10)
 - b) Discuss the physiological functions of thrombin. (15)
- [25]