



## THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

### Final Examination for the Fellowship of the College of Pathologists of South Africa - Haematology

1 March 2018



Paper 1

Laboratory Practice and Basic Principles

(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)*

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- 1 A laboratory in a rural area is requested to provide a diagnostic coagulation service. The laboratory manager requests your input. Write a reply to him in which you also discuss the option of point of care instrumentation. [25]
- 2 Discuss the role of both immunomodulation and the tumour microenvironment in the pathogenesis of Hodgkin lymphoma. [25]

**Please answer questions 3a), 3b) and 3c) in one booklet**

- 3 Write short notes on
  - a) Laboratory testing for heparin induced thrombocytopenia. (10)
  - b) The use of immunophenotyping for minimal residual disease (MRD) detection in acute leukaemia. (10)
  - c) Unstable haemoglobin disorders. (10)

**Please answer questions 3d) and 3e) in one booklet**

- d) "Pre-analytical errors are estimated to be a major cause of laboratory errors." Briefly comment on this statement. (10)
  - e) Personalised medicine in haematology. (10)
- [50]



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Paper 2

Applied Clinical Haematology

(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)*

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- 1 Discuss the immunological complications of transfusion. [25]
- 2 Discuss the mechanisms, diagnosis and management of cold agglutinin disease. [25]
- 3 Discuss the following
  - a) The reduction of polymerisation in the treatment of homozygous sickle cell disease. (10)
  - b) Targeting deubiquitinases in the treatment of haematological malignancies. (10)
  - c) Use of anti-Xa agents in myocardial infarction. (10)[30]
- 4 Write short notes on
  - a) Thrombocytopenia in liver disease. (10)
  - b) The diagnostic approach to acquired neutropenia. (10)[20]