FC Path(SA) Haem Part II

# 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

27 February 2020

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 Provide an overview of the laboratory diagnosis of Von Willebrand disease. Also compare and contrast the advantages and disadvantages of the newer platelet-dependant Von Willebrand factor functional assays (VWF:GPIbR and VWF:GPIbM) with the traditional VWF:RCo activity. [25]

2 You are a haematologist in an equipped and functional central haematology laboratory. You are requested to evaluate the performance of a new fully automated haematology full blood count analyser. List the performance parameters you would evaluate with a brief description of the procedure of each. [25]

3 Discuss the pathophysiology and diagnosis of Paroxysmal Nocturnal Haemoglobinuria. [20]

4 Novel agents for the treatment of haemophilia are becoming more widely available. Write short notes on the issues surrounding coagulation testing in patients treated with emicizumab. [10]

5 Write short notes on gamma irradiation of blood components. [10]

6 Write short notes on the diagnosis of Systemic Mastocytosis. [10]

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Paper 2 Applied Clinical Haematology (3 hours)

*All questions are to be answered.*

1 Write notes on the pathophysiology, diagnosis, treatment and prophylaxis of the differentiation syndrome in acute promyelocytic leukaemia. [25]

2 Discuss the possible haematological abnormalities that may occur in a patient treated at the rheumatology clinic for systemic lupus erythematosus. [25]

3 Provide an algorithm for the management of anticoagulant associated major bleeding. [10]

4 Write short notes on idiopathic cyclic thrombocytopenia. [10]

5 In table format, compare and contrast the features of transfusion-associated circulatory overload (TACO) and transfusion-related acute lung injury (TRALI). [10]

6 The prognostic groups for AML have recently been updated. Provide a summary of the cytogenetic and molecular features of the poor prognostic group. [10]

7 Write short notes on the diagnosis of Hereditary Elliptocytosis. [10]