



## THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

Examination for the Subspeciality in Clinical Haematology of the  
College of Pathologists of South Africa

3 March 2017



1 Paper only

(3 hours)

*All questions 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 Write short notes on the clinical features, diagnosis, prognosis and management of a patient, 55-years-of-age with multiple myeloma. [25]
  - 2
    - a) Briefly describe the metabolic abnormalities and treatment of tumour lysis syndrome. (10)
    - b) Write short notes on Factor V Leiden (FV Leiden) under the following headings
      - i) Molecular basis of FV Leiden and activated proteic C (APC) resistance. (10)
      - ii) Laboratory testing. (5)[25]
  - 3
    - a) CAR-T cell therapy has shown some promising results in the management of some of the haematological malignancies. Briefly discuss the challenges of and list the strategies to improve CAR-T cell therapy in the treatment of haematological malignancies. (8)
    - b) Discuss the therapeutic indications, mechanisms of action and adverse effects of Bendamustine. (8)
    - c) Discuss the approach to the diagnosis and management of platelet refractoriness. (9)[25]
  - 4 Discuss the revised 2016 WHO diagnostic classification of Myeloproliferative Neoplasms. Summarise the classification, highlight the new changes and tabulate the diagnostic criteria for the classical myeloproliferative neoplasms. [25]