



Cert Clin Haematology(SA) Paed

THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

Subspecialty Examination for the Certificate in Clinical Haematology of the
College of Paediatricians of South Africa

7 April 2016

Paper 1

(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 severely emaciated 7-year-old boy is transferred from a rural hospital with severe anaemia, upper airway obstruction, cardiac failure, significant generalised lymphadenopathy, hepatosplenomegaly, severe bone pain, and anuria. On admission to the rural hospital he had a generalised convulsion. He is alone as he is an orphan. A full blood count revealed Haemoglobin of 4g/dL, White cell count of $10 \times 10^9/l$, and platelet count of $55 \times 10^9/l$
 - a) Discuss your investigations, immediate management, differential diagnosis and treatment of the patient. (20)
 - b) Discuss the ethical aspects regarding obtaining consent in this child for procedures and treatment. (5)[25]
- 2 Give a diagnostic approach to inherited haemolytic anaemias. Discuss challenges faced in the South African setting and propose solutions. [25]
- 3
 - a) List the indications for BMT in paediatric haematological diseases. (5)
 - b) Discuss the use of blood products in patients receiving high-dose chemotherapy or bone marrow ablative therapy. For each product mentioned give the indications for use. (10)
 - c) Discuss the management of a child with febrile neutropenia. (10)[25]
- 4 Discuss the pathophysiology of haemophilic arthropathy and treatment options for established arthropathy. [25]



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Paper 2

(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 Write notes on fungal prophylaxis for patients with acute myeloid leukaemia. [10]
- 2 Write short notes on the diagnosis and management of CNS leukaemia in ALL. [10]
- 3 Discuss the role of high-dose Methotrexate in the management of paediatric NHL. [10]
- 4 Write short notes on post-transplant lymphoproliferative disease. [10]
- 5 Describe the chromosomal translocations involved in the oncogenesis of paediatric NHL. [10]
- 6 Write short notes on false negative and false positive results in assessing minimal residual disease for acute leukaemia. [10]
- 7 Write short notes on the post-transfusion purpura. [10]
- 8 Write short notes on myeloid leukaemia associated with Down syndrome. [10]
- 9 Discuss erythropoietic porphyria. [10]
- 10 Write short notes on Inherited Platelet disorders. [10]