Cert Clin Haematology(SA) Paed

THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

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

2 March 2017

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).

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1 Discuss the principles of maintenance therapy in Acute Lymphoblastic Leukaemia. [10]

2 Discuss the role of Positron Emission Tomography (PET) scanning in the management of Hodgkin Lymphoma. [10]

3 Discuss the role of genes other than the Fanconi anaemia (*FANC*) genes in the clinical course of Fanconi anaemia patients. [10]

4 A mother with sickle cell disease is ten weeks pregnant and asks you to find out if the foetus will also have a haemoglobinopathy. Briefly describe the procedures and laboratory tests that are available to answer her question. [10]

5 Write short notes on CMV prophylaxis and treatment in the context of stem cell transplantation. [10]

6 Write short notes on
a) Cyclic neutropenia.
b) Severe Congenital neutropenia. [10]

7 Write short notes on the management of chemotherapy-induced nausea and vomiting. [10]

8 A patient presents to you with a full blood count done elsewhere. The haemoglobin is reported to be 12.3 g/dL. Your local laboratory reports the haemoglobin to be 14.1 g/dL. Describe the measures a laboratory puts in place to ensure the quality of its results. [10]

9 Briefly discuss the laboratory diagnosis of haemophagocytic lymphohistiocytosis. [10]

10 Briefly discuss the pathogenesis of
a) HUS (Haemolytic Uremic Syndrome).
b) TTP (Thrombotic Thrombocytopenic Purpura). [10]

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Paper 2 (3 hours)

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1 Discuss in detail MRD determination in Acute Lymphoblastic Leukaemia, and its utility in first remission, relapse and prior to transplant. [25]

2 Discuss the following with regard to inhibitors in patients with Haemophilia A:

a) Characteristics of inhibitors [5]
b) Risk factors for inhibitor development [5]
c) Diagnosis of inhibitors [5]
d) Management of patients with inhibitors [10]

[25]

3 Describe the laboratory workup of a child that presents with a severe thrombocytopenia. [25]

4 Discuss the haematological manifestations of Down Syndrome. [25]