



THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

Examination for the Subspecialty Certificate in Rheumatology of the
College of Paediatricians of South Africa

25 July 2019

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)

Please answer questions 1 and 2 in one booklet

- 1 Discuss macrophage activation syndrome (MAS) with regards to
- a) Clinical presentation. (5)
 - b) Pathophysiology. (5)
 - c) Possible causes. (5)
 - d) Diagnosis: with specific relation to Systemic Juvenile Idiopathic Arthritis patients. (5)
 - e) Treatment. (5)
- [25]
- 2 Discuss juvenile dermatomyositis (JDM) under the following headings
- a) Definition and Classification. (5)
 - b) Epidemiology. (2)
 - c) Etiology. (3)
 - d) Clinical presentation. (5)
 - e) Laboratory examination and other investigations. (5)
 - f) Treatment. (5)
- [25]

Please answer questions 3 and 4 in one booklet

- 3 Please discuss the 2017 AHA and 2019 SHARE guidelines on kawasaki disease (KD) under the following headings
- a) What is the SHARE initiative? (2)
 - b) Provide the 2017 diagnostic criteria for complete Kawasaki disease. (5)
 - c) Comment on the diagnosis of incomplete Kawasaki disease. (5)
 - d) Discuss laboratory and non-laboratory indicators that may indicate high risk for severe disease. (5)
 - e) Discuss the management of KD under the following headings
 - i) IVIG. (4)
 - ii) Aspirin. (2)
 - iii) Corticosteroids. (2)
- [25]
- 4 Discuss the approach to a 2-year-old with a new onset limp under the following headings
- a) History. (10)
 - b) Differential diagnosis. (10)
 - c) Investigations. (5)
- [25]



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26 July 2019

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)

Please answer questions 1 to 5 in one booklet

- 1 Write short notes on the management of Oligoarticular Juvenile Idiopathic Arthritis. [10]
- 2 Discuss the different inflammatory markers available to test for inflammation and their significance in paediatric rheumatology. [10]
- 3 Briefly describe the mechanism of action and side effects of Methotrexate in paediatric rheumatology. [10]
- 4 Describe the classification of childhood systemic vasculitis. [10]
- 5 Briefly describe
 - a) The difference between Primary and Secondary Raynaud phenomenon. (4)
 - b) Discuss the management of Raynaud phenomenon in paediatric patients. (6)[10]

Please answer questions 6 to 10 in one booklet

- 6 Discuss the challenges of using biological agents in Africa. [10]
- 7 Give an example of a rheumatic disease that is mediated by the innate immune system and discuss the pathways associated with this disease and how therapy is based on these pathways. [10]
- 8 Please define any 5 of the following
 - a) -Transcriptome. (2)
 - b) -Genome. (2)
 - c) -Microbiome. (2)
 - d) -ELISA. (2)
 - e) -HLA. (2)
 - f) -Delphi technique. (2)
 - g) -P value. (2)
 - h) -t-test. (2)[10]

- 9 Discuss JAK inhibitors in terms of mechanism of action, proposed pathways and proposed use in paediatric rheumatology. [10]
- 10 Briefly discuss differences in the ACR and SLICC criteria for SLE, and their use in children. [10]