



Cert Pulmonology(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 Pulmonology of the College of Paediatricians of South Africa

Paper 1

27 February 2020

(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 a) Discuss the embryology of the trachea. (8)  
b) What conditions may arise from abnormal tracheal formation? (8)  
c) Discuss the management of these conditions. (9)  
[25]
  
- 2 Discuss paediatric empyema under the following headings  
a) Pathophysiology. (6)  
b) Diagnosis. (8)  
c) Management. (11)  
[25]
  
- 3 The airways of children are prone to obstructive diseases due to anatomical and physiological factors that differ from that of adults.  
a) Discuss anatomical differences between the paediatric and adult airways, also indicating how these differences affect laryngoscopy and intubation. (10)  
b) Discuss the aetiology of acute airway obstruction and how you would manage any three (3) of the causes. (15)  
[25]
  
- 4 Discuss the important disorders of immune dysregulation as they impact pulmonary conditions in children using the following headings  
a) A list of the conditions. (5)  
b) Clinical manifestations (pulmonary and associated extrapulmonary). (10)  
c) Diagnostic tests for these conditions (both of the condition and its associated consequences). (10)  
[25]



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Paper 2

28 February 2020

(3 hours)

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- 1 Discuss the management options for a 6-month-old, previously well, child admitted with bronchiolitis. [10]
- 2 Discuss the changes in the latest paediatric asthma guidelines as outlined in the 2019 GINA statement. [10]
- 3 Briefly discuss the diagnostic options for pulmonary tuberculosis in an 18-month-old child. [10]
- 4 Cough is a physiological reflex that is required to clear airway secretions. It can however, be a sign of serious disease. Discuss chronic cough under the following headings:
  - a) Definition. (3)
  - b) Aetiology and management of chronic wet cough (7)[10]
- 5 Discuss the management of allergic bronchopulmonary aspergillosis (ABPA) in a child with cystic fibrosis, under the following headings:
  - a) Mention four (4) goals in the management of the disease (ABPA). (4)
  - b) Discuss various drug options that are available for the treatment of ABPA. (6)[10]
- 6 Acute respiratory distress syndrome (ARDS) may have devastating outcomes for patients in the paediatric intensive care unit (PICU), if not diagnosed and treated promptly and correctly.
  - a) Discuss the Berlin definition, including how the level of severity of ARDS is determined. (5)
  - b) Briefly discuss the patho-physiology of ventilator-induced lung injury. (5)[10]
- 7 Write short notes on the impact of climate change on lung health and disease. [10]
- 8 Write short notes on the concept of 'sino-bronchitis'. [10]
- 9 Discuss the principles of allergy testing in the diagnosis of paediatric asthma. [10]
- 10 Discuss the diagnostic criteria for primary ciliary dyskinesia. [10]