



## THE COLLEGES OF MEDICINE OF SOUTH AFRICA

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

### Final Examination for the Fellowship of the College of Cardiothoracic Surgeons of South Africa

27 July 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
- a) Draw an algorithm for the management of Empyema Thoracis. (30)
  - b) Briefly discuss the evaluation and management of a pneumomediastinum following thoracic trauma. (30)
  - c) Briefly discuss the complications and management of sternal and rib fractures. (40)
- [100]
- 2
- Discuss briefly
- a) Tuberculosis (TB) and human immune deficiency (HIV) in a patient under the following headings
    - i) Investigations performed to establish the diagnosis of TB and HIV and to evaluate the complications of these infections which are of relevance to a Cardiothoracic Surgeon. (30)
    - ii) The analysis and most appropriate management of these complications. (40)
  - b) The pathology and management of benign oesophageal stricture. (30)
- [100]
- 3
- a) Define the different compartments of the mediastinum. (10)
  - b) Briefly discuss the management of a Thymoma. (30)
  - c) Briefly discuss the management of upper airways obstruction from an anterior mediastinal mass. (30)
  - d) Briefly discuss the role of surgery in small cell lung carcinoma. (30)
- [100]



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Paper 2

(3 hours)

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- 1 a) i) Briefly discuss the indications and timing of surgery for mitral valve surgery in non-ischaemic Mitral Regurgitation. (25)
- ii) Briefly discuss the considerations regarding mitral valve repair versus replacement versus non-intervention in ischaemic Mitral Regurgitation in a patient undergoing surgery for triple vessel coronary artery disease. (35)
- b) Briefly discuss sub-mitral aneurysms regarding the diagnosis, anatomical considerations and surgical treatment. (40)
- [100]
- 2 a) Enumerate the types of atrial fibrillation. (6)
- b) Briefly discuss the causes, pathophysiology and management of permanent atrial fibrillation. (44)
- c) Briefly discuss the surgical management of heart failure. (50)
- [100]
- 3 Discuss Tricuspid Atresia under the following headings
- a) Classification and morphology. (20)
- b) Clinical status at birth and at 2-years-of-age, with explanations of the status. (30)
- c) Investigations that will contribute to the management. (20)
- d) Management and prognosis in the short, medium and long term. (30)
- [100]