

I. BASIC SCIENCES & THORACIC SURGERY

1. A) APPLIED ANATOMY

- Anatomy & Development of Chest wall
- Anatomy & Development of Diaphragm.
- Anatomy & Development of Pleura & Lung
- Anatomy of Mediastinum
- Developmental Anomalies of Hearts & Great Vessels

B) APPLIED PHYSIOLOGY

- Pulmonary function Test
- Physiology of Perfusion
- Physiology of Hypothermia
- Acid-Base Balance
- Physiology of Oesophagus & Movements

C) APPLIED BACTERIOLOGY

- Post operative infection
- Aids in Cardio thoracic surgery
- Pulmonary Tuberculosis
- Rheumatic Fever
- Endocarditis
- Infections of Pleura

D) APPLIED PATHOLOGY

- Pathology of Chestwall tumours
- Mediastinal tumours
- Pathology of pleural tumours
- Pathology of Cancer lung
- Pathology of Cancer oesophagus
- Pathology of Bronchiectasis
- Pathology of Tumors of the Heart

2) THORACIC SURGERY

- Anaesthesia in Cardio thoracic Surgery
- Post Operative Management in Cardio thoracic Surgery
- Post Operative Complications

3) LUNG

- Anomalies in lung
- Tumours
- Pulmonary Tuberculosis
- Bronchiectasis
- Surgery & Complications of lung

4) PLEURA

- Pleural Tumours

- Pleural Infection
- Empyema

5) OESOPHAGUS

- Congenital Anomalies
- Oesophageal Cancers
- Stricture Oesophagus
- Achalasia Cardia
- Surgeries in Oesophagus & Its complication

6) MEDIASTINUM

- Infections
- Tumours in Mediastinum
- Thymus tumours

7) PERICARDIUM

- Tumour
- Infections

PAPER-II

CADIO VASCULAR SURGERY

1) EXTRACORPOREAL CIRCULATION

- Hypothermia
- Complications in CPBP
- Deep Hypothermia & Circulatory Arrest
- Assisted Circulation

2) CONGENITAL HEART DISEASES - CLINICAL SIGNS - SURGERY & COMPLICATIONS

- Atrial Septal defects
- Ventricular Septal defects
- AV Canal Defects
- Tetralogy of Fallots
- Transposition of great vessels
- Truncus
- Congenital Valvular Lesions
- PDA & Coarctations

3) VALVULAR HEART DISEASE-SURGERY & COMPLICATION

- Diseases of Mitral Valve
- Diseases of Aortic Valve
- Diseases of Tricuspid & pulmonary valve

4) TUMOURS OF HEARTS

5) CORONARY ARTERY DISEASE & ITS COMPLICATION

- Coronary anatomy
- Coronary Atherosclerotic phenomena
- Coronary artery Bypass surgery
- LV aneurysm

6) AORTIC SURGERY

- Aortic Aneurysms
- Dissecting aneurysm
- Vascular Ring

7) RECENT ADVANCES

- Foetal Heart Surgery
- Warm Heart Surgery
- Transplantation
- Heart & lung
- Surgery for Arrhythmias
- Recent Advance in coronary bypass surgery