

MARCH - 1990

139

M.Ch. DEGREE EXAMINATION, MARCH 1990

(Higher Specialities)

Branch Thoracic Surgery

BASIC SCIENCES

Time Three hours

Answer ALL the questions

Discuss the diagnosis and management of dissecting aneurysms of thoracic aorta.

2. Describe the bronchopulmonary segments and discuss the aetiopathology and management of bronchiectasis.

Write short notes on :

- (a) HIS bundle mapping.**
- (b) Auto Transfusion.**
- (c) Atrial Isomerism.**
- (d) Adult respiratory distress syndrome.**

SEPTEMBER - 1990

M.Ch. DEGREE EXAMINATION, SEPTEMBER 1990

(Higher Specialities)

Branch Thoracic Surgery

Paper THORACIC SURGERY BASIC SCIENCES

Time Three hours

Answer ALL the questions.

1. Discuss the pathology and management of double outlet right ventricle.

Discuss the anatomy of mitral valve.

Write short notes on :

- (a) Dual chamber pacing.
- (b) Use of filters in cardiopulmonary bypass.
- (c) Unroofed coronary sinus.
- (d) Schatzki's ring.

MARCH - 1991

13

M.Ch. DEGREE EXAMINATION, MARCH 1991.

(Higher Specialities)

Branch I — Thoracic Surgery

Paper I — THORACIC SURGERY — BASIC SCIENCES

Time : Three hours.

Answer ALL the questions.

1. Describe congenital tracheo-esophageal fistulae and discuss the management.

2. Discuss the embryology and anatomy of inter-ventricular septum.

3. Write short notes on :

(a) Surgical anatomy of left anterior descending coronary artery.

(b) Classification of tricuspid atresia.

(c) Atrial pacing.

(d) Dopamine.

(e) Membrane oxygenator.

MARCH - 1992

M.Ch. DEGREE EXAMINATION, MARCH, 1992

Branch I - Thoracic Surgery

Paper I - THORACIC SURGERY - BASIC SCIENCES

Time: Three hours Maximum: 100 Marks

**Describe the Anatomy of mediastinum and
discuss the anterior mediastinal tumors.
(25 Marks)**

**Describe the course, relations of Arch
of Aorta. (25 Marks)**

Write short notes on: (5X10=50 Marks)

- a) Azygos Lobe
- b) Left atrial pressure
- c) Achalasia Cardia
- d) Rota Laser
- e) Internal Thoracic Artery

APRIL - 1994

(Higher Specialities)

Branch I - Thoracic Surgery

(Old/New Regulations)

Paper I - THORACIC SURGERY - BASIC SCIENCES

Three hours

Max.marks:10

Answer ALL questions

Discuss the methods in use for blood conservation in open-heart surgery. (25)

Discuss the current status of Saphenous vein as a coronary artery by-pass graft and the results of re-do CABG procedures. (25)

Write short notes on: 5 x 10 = 5

- a. Subclavian steal**
- b. Chylothorax**
- c. LVAD**
- d. Pectus excavatum**
- e. Implantable Cardio vertesdefibrillator**

NOVEMBER - 1994

ND 119

M.Ch DEGREE EXAMINATION.

(Higher Specialities)

Branch — Thoracic Surgery

(Old/New Regulations)

Paper — THORACIC SURGERY — BASIC SCIENCES

Time Three hours

Maximum : 100 marks

Answer ALL questions.

- 1. Describe the pathophysiology of pulmonary sequestration and its surgical management. (25)**
- 2. Discuss the anatomy of the fibrous skeleton of the heart. (25)**
- 3. Write short notes on :**
 - (a) Deep vein thrombosis.**
 - (b) Platelets and bleeding**
 - (c) Flail chest injuries.**
 - (d) Pulsatile perfusion.**
 - (e) Malignant pleural mesothelioma. (5 × 10 = 50)**

APRIL - 1995

SB 119]

M.O. DEGREE EXAMINATION.

(Higher Specialities)

Branch I – Thoracic Surgery

(Old/New Regulations)

Paper I – THORACIC SURGERY – BASIC SCIENCES

Time : Three hours

Maximum : 100 mark

Answer ALL questions.

1. Discuss the anatomy of the conduction system of the normal heart and TOF. (25)
 2. Discuss pathophysiology and management of Bronchiectasis. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Staging of bronchogenic carcinoma.
 - (b) Development of inter-atrial septum
 - (c) Intra-aortic balloon pump.
 - (d) An ideal heart valve.
 - (e) Pharyngeal diverticulum.
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NOVEMBER - 1995

MB

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch I - Thoracic Surgery

(Old/New Regulations)

Paper I - THORACIC SURGERY - BASIC SCIENCES

Time: Three hours

Max. marks: 1

Answer All Questions

1. Describe briefly the embryology and pathological anatomy of endocardial cushion defects.
2. Discuss briefly the physiology of cardio-pulmonary bypass. (25)
3. Write short notes on: (5x10=50)

(a) Pulmonary sequestration

Oxygen free radicals in cardio-pulmonary bypass

Pathological anatomy in tricuspid atresia

Pathological anatomy of dissecting aneurysms of the aorta

Classification of mediastinal tumours

APRIL - 1996

AK 37

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch I - Thoracic Surgery

(Old/New/Revised Regulations)

Paper I - THORACIC SURGERY - BASIC SCIENCES

Time: Three hours

Max. marks:100

Answer All Questions

1. Describe the pathology of mediastinal tumours. (25)
2. Describe the surgical anatomy and management of congenital atresia of the oesophagus. (25)
3. Write short notes on: (5x10=50)
 - (a) Pathological anatomy of transposition complexes of the heart
 - (b) Endocardial cushion defects:- Developmental anatomy
 - (c) Surgical anatomy of mitral valve apparatus
 - (d) Re-perfusion injuries after cardio-pulmonary bypass.
 - (e) Acquired Respiratory Distress Syndrome.

APRIL - 1997

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch I - Thoracic Surgery

(Revised Regulations)

Paper I - BASIC SCIENCES

Time: Three hours

Max. marks:100

Answer all Questions

1. Describe the anatomy of thymus and discuss the pathogenesis and the various modes of management of myasthenia gravis. (25)
2. Describe the anatomy, pathophysiology and surgery of ruptured sinus of Valsalva. (25)
3. Write briefly on: (5x10=50)
 - (a) Flail chest injury
 - (b) Name the bronchopulmonary segments and describe the lymphatic drainage of the lung.
 - (c) Chylothorax
 - (d) Anatomy of coronary sinus with relevance to retrograde coronary perfusion
 - (e) Anatomical variations of truncus arteriosus.

APRIL - 1998

SV 28

M.Ch. DEGREE EXAMINATION
(Higher Specialities)
Branch I - Thoracic Surgery
(Revised Regulations)
Paper I - BASIC SCIENCES

Time: Three hours Max. marks:100

Answer All Questions

1. Describe the morphology of tricuspid valve. Discuss various causes of regurgitation and highlight the basic principles of its surgical management. (25)
2. Describe the various factors contributing to the patho-physiological changes associated with cardio-pulmonary bypass. (25)
3. Write briefly on: (5x10=50)
 - (a) Chylothorax
 - (b) Dysphagia lusoria
 - (c) Pulmonary embolism
 - (d) Classification and aetio-pathology of dissecting aortic aneurysm
 - (e) Use of laser in tracheo-bronchial lesions.

OCTOBER - 1998

[SM 025]

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

Branch I — Thoracic Surgery

(Revised Regulations)

Paper I — BASIC SCIENCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the morphology of mitral valve. Discuss the various aetiological causes of regurgitation and highlight the various basic principles involved in the repair of mitral valve. (25)
2. Describe the anatomical development of aortic arches and mention the various surgical anomalies that can result because of congenital malformation. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Use of vaso-dilators in cardiac surgery.
 - (b) Broncho-pulmonary collaterals.
 - (c) Pulmonary vasculature changes in left to right shunts.
 - (d) Re perfusion syndrome.
 - (e) Biopump.

APRIL - 2000

[KB 025]

Sub. Code : 1501

M.Ch. DEGREE EXAMINATION

(Revised Regulations)

Branch I — Thoracic Surgery

Paper I — BASIC SCIENCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the Pathology of Carcinoma of Lung and the principles in management. (25)
2. Etiopathogenesis of Pulmonary Arterial Hypertension and its significance in cardiac surgery. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Coarctation of Aorta.
 - (b) Anticoagulants in Cardiac Surgery.
 - (c) Congenital sternal anomalies.
 - (d) Absent Pulmonary Valve Syndrome.
 - (e) Additives in cardioplegia.

OCTOBER - 2000

[KC 025]

Sub. Code : 1501

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch I — Thoracic Surgery

(Revised Regulations)

Paper I — BASIC SCIENCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the venous drainage of heart and explain in detail the clinical relevance. (25)
2. Describe the pathophysiology of hypothermia with reference to open heart surgery. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Azygos vein
 - (b) Physical principles of diffusion of gases
 - (c) Classifications of aorto-pulmonary window
 - (d) Diltiazem
 - (e) Nosocomial infections in cardiac surgery.