

APRIL - 2001

[KD 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch I — Thoracic Surgery

(Revised Regulations)

**Paper II — THORACIC AND CARDIOVASCULAR
SURGERY — I**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Anatomy of conducting bundle and aberrant conducting tissues in heart. (25)
2. Anatomy of tricuspid atresia and its management. (25)
3. Short notes on : (5 × 10 = 50)
 - (a) Pancoast tumour.
 - (b) Myasthenia gravis and associated syndromes
 - (c) Bronchopulmonary segments.
 - (d) Solitary pulmonary nodules.
 - (e) Anatomy of Thymus and its blood supply.

MARCH - 2002

[KG 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Thoracic Surgery

**Paper II — THORACIC AND CARDIOVASCULAR
SURGERY— I**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the conduction system of the heart. Describe the changes of the conduction in congenital cardiac anomalies including the positional, and also in coronary artery disease. (25)
 2. Describe the clinicopathological difference between pulmonary atresia with ventricular septal defect, and pulmonary atresia with intact ventricular septum. Discuss the role of surgery in both of them. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Impalement injury of the chest
 - (b) Neurogenic mediastinal tumour
 - (c) Volume reduction surgery in emphysema of the lung
 - (d) Closed versus balloon mitral valvotomy
 - (e) Ischaemic preconditioning of the heart.
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SEPTEMBER - 2002

[KH 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch I — Thoracic Surgery

Paper II — THORACIC AND CARDIOVASCULAR
SURGERY – I

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Give a diagrammatic presentation of various coronary artery patterns in transposition of great arteries. Discuss the management of a 5 month old child with 'd' Transposition of Great Arteries.

What is the only criteria for the correction of transposition of coronary arteries? (25)

2. Discuss the etiopathogenesis of lung cancer and the management. (25)

3. Short notes on : (5 × 10 = 50)

- (a) Air embolism in cardiopulmonary bypass.
- (b) Cor Triatriatum.
- (c) Supra Cardiac TAPVC & management.
- (d) Complications of mitral stenosis.
- (e) Minimal invasive cardiac surgeries.

APRIL - 2003

[KI 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Thoracic Surgery

Paper II — THORACIC AND CARDIOVASCULAR
SURGERY - I

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the pathophysiology of Mitral stenosis and discuss the various treatment modalities. (25)
 2. Discuss the etiopathology of truncus arteriosus and its management. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Intra-Aortic Balloon pump
 - (b) Bronchial Adenoma
 - (c) Pulmonary atresia with intact ventricular septum
 - (d) Myasthenia gravis
 - (e) ECMO.
-

APRIL - 2004

[KK 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

**Paper II — THORACIC AND CARDIO VASCULAR
SURGERY — I**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

A. Essay Questions.

(2 × 15 = 30)

**(1) Discuss the etiology and management of
Massive Haemoptysis.**

**(2) Management of Low Cardiac output in the
peri operative period.**

B. Short notes on :

(10 × 5 = 50)

- (1) Barrett's esophagus**
- (2) Superior Vena Cava syndrome.**
- (3) Pectus excavatum.**
- (4) Casoni's test.**
- (5) Flail chest.**
- (6) Sleeve resection.**
- (7) Pulsus Paradoxus.**
- (8) Kawasaki's disease.**
- (9) TEE.**
- (10) Mycetoma.**

AUGUST - 2004

[KL 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

**Paper II — THORACIC AND CARDIO VASCULAR
SURGERY — I**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions : (2 × 15 = 30)

(1) Discuss the clinical features, diagnosis and management of Ebstein's anomaly of tricuspid valve.

(2) Enumerate different types of palliative systemic to pulmonary artery shunt and discuss any one of them.

II. Short notes : (10 × 5 = 50)

- (a) Classification of Endocardial cushion defect.**
- (b) Management of left superior vena cava during atrial septal defect closure.**
- (c) Treatment of hypertensive patent ductus arteriosus.**
- (d) Merits and demerits of right atrial approach to ventricular septal defect.**
- (e) Explain unifocalisation and its indications.**
- (f) Treatment of Interrupted Aortic arch.**
- (g) Long term results after total correction of tetralogy of fallot.**
- (h) Absent pulmonary valve syndrome - diagnosis and treatment.**
- (i) Ross procedure - surgical technique.**
- (j) Current role of pulmonary artery banding.**

FEBRUARY - 2005

[KM 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

Paper II — THORACIC AND CARDIO VASCULAR
SURGERY – I

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions : (2 × 15 = 30)

(1) Discuss in detail the anatomy, physiological consequences and treatment of Hypoplastic Left Heart Syndrome.

(2) Discuss the indications for the Rastelli procedure.

II. Short notes : (10 × 5 = 50)

(a) Clinical features and treatment of Bronchial Adenomas.

(b) Discuss Middle Lobe Syndrome.

(c) Discuss the treatment of recurrent Spontaneous Pneumothorax.

(d) Discuss the treatment of Post Pneumonectomy Empyema.

(e) "Silhouette" sign.

(f) Traumatic Diaphragmatic rupture.

(g) Indications of surgery in Pulmonary Tuberculosis.

(h) Neurogenic tumours of Mediastinum.

(i) Extralobar sequestration.

(j) Pulmonary AV Fistula.

FEBRUARY - 2006

[KO 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

**Paper II — THORACIC AND CARDIO
VASCULAR SURGERY — I**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions : (2 × 15 = 30)

1. Describe the etiopathogenesis and diagnosis of bronchopleural fistula. Discuss the management of bronchopleural fistula.

2. Define solitary pulmonary nodule (SPN). Discuss the differential diagnosis of SPN.

II. Short notes : (10 × 5 = 50)

(a) Carinal pneumonectomy

(b) Endo vascular stenting

(c) Bronchial artery embolisation

(d) Management of multilocular empyema

(e) Esophagomyotomy

(f) PTEE grafts

(g) Techniques of lung isolation

(h) Compartment syndrome

(i) Esophageal bougienage

**(j) Paraplegia following surgery on descending
aorta.**

AUGUST - 2006

[KP 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

**Paper II — THORACIC AND CARDIO VASCULAR
SURGERY — I**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

**(1) Discuss the Pathophysiology, diagnosis and
management of palmonary embolism. (20)**

**(2) Discuss various treatment modalities used in
post thoracotomy pain management. (15)**

**(3) Discuss surgical treatment of carcinoma
oesophagus involving the lower third. (15)**

II. Short notes :

(6 × 5 = 30)

(a) Role of surgery in Pulmonary tuberculosis.

(b) Chylothorax.

(c) Benign tumours of lung.

(d) Pectus excavatum.

(e) Thoracic outlet syndrome

(f) Tracheostomy.

FEBRUARY - 2007

[KQ 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

**Paper II — THORACIC AND CARDIO VASCULAR
SURGERY — I**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

- 1. Discuss the natural history, haemodynamics and management of a child born with total anomalous pulmonary venous connexion (TAPUC). (20)**
- 2. Discuss the morphology, natural history and management options in Epstein's Anomaly. (15)**
- 3. Discuss the principle of Fontain's circulation. Describe the various modifications of Fontain's procedure. (15)**

4. Write short notes on :

(6 × 5 = 30)

- (a) Congenital tracheo esophageal fistula**
 - (b) Pulmonary arterio venous fistula**
 - (c) Management of cyanotic spell**
 - (d) Pulmonary hypertension crisis**
 - (e) Differential diagnosis of continuous murmur in left precordium**
 - (f) Unroofed coronary sinus.**
-

August-2007

[KR 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

**Paper II — THORACIC AND CARDIO VASCULAR
SURGERY — I**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

(1) Compare Off pump CABG versus On pump CABG with reference to multivessel coronary artery disease. (20)

(2) Discuss Bioprosthetic Heart Valves and their utility in clinical practise. (15)

(3) Discuss the pathophysiology of chronic constrictive pericarditis and its surgical management. (15)

II. Write short notes on :

(6 × 5 = 30)

(a) Transhiatal resection of oesophagus

(b) Tracheostomy

(c) Pulmonary embolism – management

(d) Surgical versus Device closure of PDA

(e) Low molecular weight heparin

(f) Redocardiac surgery – problems and management.

February-2008

[KS 026]

Sub. Code : 1502

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch I — Cardio Thoracic Surgery

**Paper II — THORACIC AND CARDIO VASCULAR
SURGERY — I**

Q.P. Code : 181502

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay questions :

(1) Classify complete AV canal defects and describe the principles of surgical corrections. (20)

(2) Discuss the pathogenesis, investigations and surgical management of recurrent haemoptysis. (20)

II. Short notes : (10 × 6 = 60)

(1) Pulmonary thromboendarterectomy.

(2) Cryopreservation.

(3) Pulmonary vascular disease in shunt lesions.

(4) Retrograde cardiophagia.

(5) Mediastinoscopy.

(6) Achalasia cardia.

(7) Lung volume reduction.

(8) Total arterial revascularisation.

(9) Infracardiac TAPVC.

(10) Phrenic nerve injury.

August 2008

[KT 026]

Sub. Code: 1502

M.CH DEGREE EXAMINATIONS

(Higher Specialities)

(Revised Regulations)

Branch I – Cardio Thoracic Surgery

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Describe various causes of right ventricular outflow tract obstruction and their treatment with surgery.
2. Describe the aetiology of stricture oesophagus and its treatment.

II. Write short notes on:

(10 x 6 = 60)

1. Glenn shunt.
 2. Vanishing lung.
 3. Aortic arch interruptions.
 4. Dysphagia lusoria.
 5. Jet Ventilation.
 6. Rib notching.
 7. Benign tumours of oesophagus.
 8. Systemic inflammatory response syndrome.
 9. Foregut cysts.
 10. Branchial artery embolization.
-

August 2009

[KV 026]

Sub. Code: 1502

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Higher Specialities)

(Revised Regulations)

Branch I – Cardio Vascular and Thoracic Surgery

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Discuss the various techniques of myocardial protection and their cellular and molecular basis.
2. Discuss the etiopathology of myasthenia gravis and outline the management of a patient admitted with myasthenic crisis.

II. Write short notes on:

(10 x 6 = 60)

1. Transplantation biology.
2. Thoracic duct.
3. Ross procedure.
4. Walton C Lillehar.
5. VATS.
6. Enumerate the causes of continuous cardiac murmur.
7. Pectus excavatum.
8. Nitric oxide.
9. Ebstein's anomaly.
10. Mediastinal tumours in children.

February 2010

[KW 026]

Sub. Code: 1502

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

(Revised Regulations)

Branch I – Cardio Vascular and Thoracic Surgery

(Common to all candidates)

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. What is video assisted thoracic surgery? Describe various procedures done with this modality.
2. Describe various posterior mediastinal masses and their surgical treatment.

II. Write short notes on:

(10 x 6 = 60)

1. Empyema necessitalis.
2. Paradoxical movement of chest.
3. Atrial septal defect surgery using thoracotomy approach.
4. Dextrocardia.
5. Diaphragmatic pacing.
6. Struck valve.
7. Oesophageal perforation.
8. Complete heart block.
9. Closure of ventricular septal defect.
10. Pectus carinatum.

February 2011

[KY 026]

Sub. Code: 1502

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

(Revised Regulations)

Branch I – Cardio Vascular and Thoracic Surgery

(Common to all candidates)

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Discuss about protection of the Brain during aortic surgery.
2. Discuss the techniques of Mitral Valve Repair.

II. Write short notes on:

(10 x 6 = 60)

1. Extra Corporeal Membrane oxygenators.
2. Features of a membrane oxygenator.
3. Indications for surgery in pulmonary tuberculosis.
4. Classification of bronchial adenomas.
5. Middle lobe syndrome.
6. Double lumen endotracheal tubes.
7. Cor triatriatum.
8. Effects of nicotine on the cardiovascular system.
9. 'Metabolic' Syndrome.
10. Pulmonary Arteriovenous fistula.

August 2011

[KZ 026]

Sub. Code: 1502

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATION
(SUPER SPECIALITIES)
BRANCH I – CARDIO VASCULAR AND THORACIC SURGERY
THORACIC AND CARDIO VASCULAR SURGERY I
Q.P. Code: 181502

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|---|----|----|----|
| 1. A patient presents with a carcinoid tumour on the lower Trachea 4 cm from carina. Discuss the surgical technique and post operative management. | 11 | 35 | 15 |
| 2. A 26 year old lady interested in bearing children comes for surgical correction of mitral regurgitation. What are the surgical options? Outline the technique. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. A victim of road traffic accident comes with a massive air leak in a right sided intercostals drain. How will you proceed to manage him? | 4 | 10 | 7 |
| 2. A patient with a mechanical Mitral valve prosthesis comes in with Acute Dyspnoea. What are the possibilities and management. | 4 | 10 | 7 |
| 3. A young lady comes up for closure of an Atrial Septal defect. What will be the surgical approach cosmetically? | 4 | 10 | 7 |
| 4. A Healthy 5 year old child is brought to the hospital with breathlessness and mild stridor. What are the possibilities and line of management. | 4 | 10 | 7 |
| 5. A 50 year old male develops a low cardiac output 6-7 hours after operation. How will you assess and manage him? | 4 | 10 | 7 |
| 6. How will you compare a rigid with fiberoptic bronchoscope? advantages and limitations. | 4 | 10 | 7 |
| 7. How will you manage a chylothorax following a CABG Surgery? | 4 | 10 | 7 |
| 8. A patient develops massive bleeding posteriorly after a Mitral valve replacement. Possibilities and management. | 4 | 10 | 7 |
| 9. Mention the various surgical procedures to repair coarctation of Aorta. Discuss the indications for each procedure. | 4 | 10 | 7 |
| 10. Investigations and management of pulmonary embolism. | 4 | 10 | 7 |

[LB 026]

AUGUST 2012

Sub. Code: 1502

M.Ch – CARDIO VASCULAR AND THORACIC SURGERY
Paper – II THORACIC AND CARDIO VASCULAR SURGERY I
Q.P. Code: 181502

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss in detail the anatomy, physiological consequences and management of hypoplastic left heart syndrome.	16	35	15
2. Describe the aetiology of stricture oesophagus and its treatment.	16	35	15

II. Write notes on:

1. Discuss the surgical approaches for a patient with pan-coast tumour.	4	10	7
2. Surgical technique in coronary A-V fistula.	4	10	7
3. Indications for diaphragmatic pacing.	4	10	7
4. Total arterial revascularization.	4	10	7
5. Indication of Mediastinoscopy.	4	10	7
6. Indications of Bronchial artery embolisation.	4	10	7
7. Explain unifocalisation and its indications.	4	10	7
8. Explain Pulmonary artery banding, its indications and complications.	4	10	7
9. Management of hypertensive Patent Ductus Arteriosus.	4	10	7
10. Diagnosis and management Struck valve.	4	10	7

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY
Paper – II THORACIC AND CARDIO VASCULAR SURGERY - I
Q.P.Code: 181502

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. What is meant by parenchymal sparing lung resection? Discuss the indications and technique of left main stem bronchial sleeve resection.
2. In a patient coming up for mitral valve replacement how will you assess and manage the tricuspid valve regurgitation. Methods and techniques?

II. Write notes on:

(10X7=70)

1. Extra pulmonary non metastatic manifestations of bronchogenic carcinoma.
2. Classify thymic tumours. Outline the principles of diagnosis and management.
3. Manifestation and management of spontaneous esophageal rupture.
4. Management of giant left atrium during mitral valve procedures.
5. Assessment of myocardial viability.
6. Surgical ventricular restoration.
7. Stentless aortic valve. Classifications and indications.
8. Classification of aortic dissection.
9. Double aortic arch.
10. Unroofed coronary sinus.

[LF 026]

AUGUST 2014

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q. P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Classification of Tricuspid Atresia and the surgical procedures.
2. Complications of Coronary Artery Disease and their management.

II. Write notes on:

(10 x 7 = 70)

1. Senning Procedure.
2. Thymolipoma.
3. Therapeutic options in Ebstein's anomaly.
4. Mediastinitis.
5. Retrosternal goitre.
6. Cervical Rib.
7. Gerbode Defect.
8. Tracheomalacia.
9. Oesophageal Leiomyoma.
10. Extensively Drug Resistant Tuberculosis (XDR-TB).

[LH 026]

AUGUST 2015

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY
PAPER II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code : 181502

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Pathophysiology and Surgical Management of Tetralogy of Fallot.
2. Benign Tumors of Oesophagus and their management.

II. Write notes on :

(10 x 7 = 70)

1. Pulmonary arterial sling.
2. Retrograde Cardioplegia.
3. Massive Air Embolism.
4. Activated Clotting Time.
5. Endocoronary shunt.
6. Double Aortic Arch.
7. Low profile valve.
8. Blalock-Hanlon Procedure
9. Pulmonary Hypertension.
10. Glenn Shunt.

(LJ 026)

AUGUST 2016

Sub. Code:1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY
Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I
Q.P.Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss classification and Surgical Management of Endocardial Cushion Defects.
2. Discuss investigations and management of constrictive pericarditis.

II. Write notes on: **(10 x 7 = 70)**

1. Scimitar Syndrome.
2. Bidirectional Glenn shunt.
3. Diagnosis and management of Left Ventricular Thrombus.
4. Stress Thallium Perfusion Scan.
5. Spinal Protection- Indications and Techniques.
6. Patient Prosthesis Mismatch.
7. Paravalvular Leak.
8. Stent Grafts.
9. Budd chiari Syndrome.
10. Intravascular Ultrasound (IVUS).

(LL 026)

AUGUST 2017

Sub. Code:1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P.Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Pathological classification of Lung Cancer and Management of Non Small Cell Lung Cancer.
2. Classification, Clinical features and Surgical management of Total Anomalous Pulmonary Venous Connection.

II. Write notes on:

(10 x 7 = 70)

1. Bronchopleural fistula.
2. Tricuspid Annuloplasty.
3. Sequestration of lung.
4. Positive End Expiratory Pressure (PEEP).
5. Automatic Implantable Cardioverter Defibrillator (AICD).
6. Extracorporeal membrane oxygenator (ECMO).
7. Etiology of Benign Esophageal stricture and management.
8. Rigid Bronchoscopy.
9. Diagnosis and management of lung Hydatid.
10. Atrial Myxomas.

(LM 026)

FEBRUARY 2018

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P.Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Carcinoma esophagus.
2. AV Canal defect.

II. Write notes on:

(10 x 7 = 70)

1. Thoracic outlet syndrome.
2. Eisenmenger's syndrome.
3. ALCAPA.
4. Management of Tracheobronchial foreign bodies.
5. Coronary bridging.
6. Pleural effusion.
7. Achalsia cardia.
8. Principles in Aortic root enlargement.
9. Ebstein's anomaly.
10. Myasthenia gravis.

(LN 026)

AUGUST 2018

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P.Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Vascular ring and sling.
2. Morphology, diagnosis and management of VSD.

II. Write notes on:

(10 x 7 = 70)

1. Bronchopleural fistula.
2. Cor triatriatum.
3. Unroofed coronary sinus syndrome.
4. Mediastinoscopy.
5. Scalene biopsy.
6. Truncus arteriosus.
7. Barrett's esophagus.
8. Septal ablation.
9. Cardiac tumors.
10. Lutembacher's syndrome.

(LP 026)

AUGUST 2019

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe of the Morphology of Tricuspid Valve. Discuss the etiology of Tricuspid Regurgitation and Principles of its Surgical Management.
2. Discuss the Etiology and Management of Broncho Pleural Fistula.

II. Write notes on:

(10 x 7 = 70)

1. Stricture Esophagus.
2. Flail Chest Injuries.
3. Inter costal analgesia.
4. Ductus Dependent Circulations.
5. Chylothorax.
6. Jet Ventilation.
7. Double Lumen Endotracheal Tube.
8. Left Superior Vena Cava (LSVC).
9. Kawasaki Disease.
10. Left Atrial Myxoma.

(LR 026)

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the various causes of haemoptysis and line out the surgical implications in pulmonary tuberculosis.
2. Etiopathogenesis, diagnosis and management of constrictive pericarditis.

II. Write notes on:

(10 x 7 = 70)

1. Right ventricular out flow tract obstruction
2. Scimitar syndrome
3. Pancoast tumour
4. Oxygen free radical scavengers
5. Hydatid cyst
6. Esophageal manometry
7. Collin's solution
8. Diaphragmatic eventration
9. Glenn's shunt
10. Assisted ventilation

(MCH 0821)

AUGUST 2021

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. 'TETROLOGY OF FALLOTS' - Diagnosis and management.
2. Discuss the various techniques of mitral valve repair.

II. Write notes on:

(10 x 7 = 70)

1. Tracheomalacia.
2. Senning procedure.
3. Features of membrane oxygenator.
4. Investigation and management of pulmonary embolism.
5. Virtual bronchoscopy.
6. Damus-Kaye Stansel procedure.
7. Arterial filters.
8. Ventilation-perfusion scan and its applications.
9. Sternal dehiscence management.
10. Pulmonary oedema management.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0822)

AUGUST 2022

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

Paper II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss classification and Surgical Management of Endocardial Cushion Defects.
2. Describe the classification of Aortic Aneurysm and write in detail about the management of Aortic arch aneurysm.

II. Write notes on: **(10 x 7 = 70)**

1. Double Lumen Endotracheal Tube.
2. Management of Tracheobronchial foreign bodies.
3. Cor triatriatum.
4. Cervical rib.
5. Cardiac tumors.
6. Cyanotic spell management.
7. Hypertrophic Obstructive Cardio Myopathy (HOCM).
8. Cell saver in cardiac surgery.
9. Myocaridal Bridging.
10. Management of Anomalous origin of Left Coronary Artery from Pulmonary Artery (ALCAPA).

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0124)

JANUARY 2024

Sub. Code: 1502

M.Ch. – CARDIO VASCULAR AND THORACIC SURGERY

PAPER II – THORACIC AND CARDIO VASCULAR SURGERY - I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe Principle, technique and various methods of VATS and limitations of VATS at present.
2. Describe the composition of available preservative solution, and its action for heart lung preservation. Pros and cons about heart and lung Transplantation.

II. Write notes on:

(10 x 7 = 70)

1. Oesophagus in relation to Tracheal Surgery.
2. Bronchogenic Cystic Fibrosis.
3. Barlow's Disease.
4. Phenylephrine.
5. Homograft Tracheoplasty.
6. Modified Takeuchi operation.
7. Selection criteria for Fontan procedure.
8. Carinal Phenomenon.
9. Medical management of Postoperative Bleeding in Cardiac Surgery.
10. RSOV-Classification and Differential Diagnosis.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0824)

AUGUST 2024

Sub. Code: 1502

M.Ch. BRANCH I – CARDIO VASCULAR AND THORACIC SURGERY

PAPER II – THORACIC AND CARDIO VASCULAR SURGERY – I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss surgical anatomy of bronchus and elaborate the indications, advantage and disadvantage of rigid and flexible bronchoscope.
2. Describe various composition of cardioplegia with its action merits and demerits.

II. Write notes on:

(10 x 7 = 70)

1. Oesophagus in relation to aortic surgery.
2. Laser ablation in air way lesion.
3. Wilkins score and its importance.
4. Sotalol.
5. Treatment of bleeding in paediatric patients after CPB.
6. Tracheal stenosis.
7. Management of anomalous artery course between aorta and pulmonary artery.
8. Ross procedure.
9. Bronchial artery embolization.
10. Clinical findings and diagnostic features of constrictive pericarditis.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(MCH 0225)

FEBRUARY 2025

Sub. Code: 1502

M.Ch. BRACH I - CARDIO VASCULAR AND THORACIC SURGERY

PAPER II – THORACIC AND CARDIOVASCULAR SURGERY – I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What is meant by parenchymal sparing lung resection? Discuss the indications and technique of bronchial sleeve resection.
2. Anatomy, physiology of thoracic duct and elaborate on thoracic duct injury and its management.

II. Write notes on:

(10 x 7 = 70)

1. Double Lumen Endotracheal Tube.
2. Scalene biopsy.
3. Diagnosis and management of lung Hydatid.
4. Types of trachea-oesophageal fistula and its management.
5. Thoracic outlet syndrome.
6. Sequestration of lung.
7. Intubation Bronchoscopy.
8. Various types of Thoracotomy incisions.
9. Primary Pulmonary Hypertension.
10. Pulmonary arterial sling.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

(MCH 0825)

AUGUST 2025

Sub. Code: 1502

M.Ch. BRANCH I - CARDIO VASCULAR AND THORACIC SURGERY

PAPER II – THORACIC AND CARDIOVASCULAR SURGERY – I

Q.P. Code: 181502

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the morphology, components, clinical features, investigations and management of Tetralogy of Fallot.
2. Write in detail about the classification, screening, investigations and management of lung malignancy.

II. Write notes on:

(10 x 7 = 70)

1. Partial Anomalous Pulmonary Venous Connection (PAPVC).
2. Double chamber right ventricle.
3. Tricuspid atresia.
4. Coarctation of aorta.
5. Hypertrophic obstructive cardiomyopathy.
6. Pectus excavatum.
7. Acute respiratory distress syndrome.
8. Ross procedure.
9. Pulmonary AV fistula.
10. Thoracic outlet syndrome.
