

QP Code:

Reg.No.:.....

**M.Ch (Cardio Vascular and Thoracic Surgery) Degree Examinations
(Model Question Paper)**

Paper I – Basic Medical Sciences Relevant to Thoracic Surgery

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(20)

1. Discuss in detail the surgical anatomy of right ventricle. Describe the anatomic components of tetralogy of fallot

Short essays:

(8x10=80)

2. Non-sternotomy cardiac surgery
3. Broncho-pulmonary segments
4. PET scanning carcinoma lung
5. No-reflow phenomenon
6. Cox-proportional hazards regression
7. Serene protease inhibitors
8. Coronary angiogram
9. Thoracic outlet syndrome- - anatomical considerations and pathophysiology.

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**M.Ch (Cardio Vascular and Thoracic Surgery) Degree Examinations
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**Paper II – Natural History, Diagnosis, Management, Prognosis and
Rehabilitation of Congenital or Acquired Conditions Pertaining to General
Thoracic Surgery**

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essays: (20)

1. Describe the present concepts in the molecular biology of lung cancer. Describe in detail the surgical treatment of non-small –cell lung cancer (20)

Short essays: (8x10=80)

2. Kartagenus syndrome
3. Gene therapy in Ca.Lung
4. Pectus excavatum
5. Chylothoax
6. Oesophageal motility studies
7. Pulmonary sequestration.
8. Diaphragm pacing.
9. Pulmonary function tests

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**M.Ch (Cardio Vascular and Thoracic Surgery) Degree Examinations
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**Paper III – Natural History, Diagnosis, Management Prognosis and
Rehabilitation & Recent Advances of Congenital or Acquired Heart Diseases
and Major Blood Vessels**

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essays:

(20)

1. What is total arterial revascularisation. What are the conduits used for CABG. What is off pump CABG. Mention its advantages and disadvantages over on pump CABG (20)

Short essays:

(8x10=80)

2. Atrial isomerism
3. Myxoma heart
4. Modified konnon operation
5. Pulmonary thrombo-endartrectomy
6. Preserving native mitral valve
7. Selection of prosthetic heart valves.
8. Fontan circulation.
9. Arterial switch operation.

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**Paper IV – Recent Advances in Cardiac General Thoracic and Vascular
Surgery**

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essays: (20)

1. Discuss the novel technique of aortic valuloplasty. Describe COMVAR (20)

Short essays: (8x10=80)

2. Anti-thrombotic therapy in prosthetic heart valves.
3. Tracheal stents
4. Chimney graft
5. Indications and complications of PA catheterisation
6. Temporary ventricular assist devices
7. Current status of syntax trial
8. ECMO
9. Robotic heart surgery
