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## MANIPAL UNIVERSITY

M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2010

SUBJECT: PAPER I: BASIC SCIENCES

Monday, July 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**All questions carry TEN marks each.**

1. Discuss normal coronary anatomy.
2. Discuss broncho pulmonary segments.
3. Discuss development of diaphragm.
4. Achlasia cardia.
5. Leomyoma oesophagus.
6. Conduction system of the heart.
7. Low molecular weight heparin.
8. Physiological effects of hypothermia.
9. Alpha stat Vs Ph stat.
10. Retrograde cerebral perfussion.



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## MANIPAL UNIVERSITY

M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2010

SUBJECT: PAPER II: THORACIC AND ACQUIRED HEART DISEASES

Tuesday, July 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. Tracheo esophageal fistulla.
2. Middle lobe syndrome.
3. Boerhaeve's syndrome.
4. Bronchogenic cyst.
5. Mediastinoscopy.
6. Emergency room thoracotomy.
7. Management of ischaemic M.R.
8. Classify dissections. Treatment for type B dissection.
9. Constrictive pericarditis.
10. Pulmonary thromboendarterectomy.



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## MANIPAL UNIVERSITY

M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2010

SUBJECT: PAPER III: CONGENITAL HEART DISEASES

Wednesday, July 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. I.V.C type of ASD.
2. Interrupted aortic arch classification and surgical options.
3. Management of ruptured sinus of valsalva aneurysm.
4. Fenestrated fontan.
5. Coronary artery anomalies in tetralogy of fallot.
6. Muscular ventricular septal defect.
7. Duct dependent circulation.
8. Atrial septectomy.
9. Dysphagia lusora.
10. Ecmo in congenital heart surgery.



Reg. No.

# MANIPAL UNIVERSITY

M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2010

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, July 08, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ All questions carry TEN marks each.

1. Robotics and Cardiac Surgery.
2. Transmyocardial Laser Revascularisation.
3. Radio-frequency maze.
4. New tissue valves.
5. Endovascular stents.
6. Lobar transplantation.
7. Stem cells in cardiac surgery.
8. Total artificial heart.
9. Nitric oxide in heart and lung surgery.
10. Tissue sealants in Cardiac Surgery.

