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MANIPAL UNIVERSITY

M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER I: BASIC SCIENCES

Tuesday, July 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. Inflammatory response to CPB.
2. Extra corporeal circulation indications.
3. Classify arrhythmias. Add a note on surgical correction.
4. What are the different types of hypothermia? Its relevance to cardiac surgery.
5. Anatomy of cerebral circulation. What is retrograde cerebral perfusion?
6. Total circulatory arrest.
7. Myocardial preservation during cardiac surgery.
8. Define cardioplegia. Describe the different techniques.
9. Describe the surgical anatomy of the coronary arteries.
10. Coronary artery anatomy in TGA. Its relevance to surgical correction.



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M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER II: THORACIC AND ACQUIRED HEART DISEASES

Thursday, July 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ **All questions carry TEN marks each.**

1. Aetiopathogenesis of broncho-pleural fistula salient features of treatment.
2. Empyema, types, how do you treat loculated empyema?
3. Pancoast tumor investigations and treatment.
4. Bronchogenic carcinoma histopathological types treatment of adeno carcinoma.
5. Surgical treatment of carcinoma middle 1/3rd of oesophagus.
6. Causes, diagnosis and management of pulmonary embolism.
7. Surgical treatment of heart failure.
8. Classify arrhythmias. Describe any one surgical technique for its management.
9. What do you mean by thrombo endarterectomy? Indications for the procedure. Describe the technique.
10. What are the different types of intracardiac tumors? Management of (L) atrial myxomo.



MANIPAL UNIVERSITY**M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2011****SUBJECT: PAPER III: CONGENITAL HEART DISEASES**

Saturday, July 09, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ All questions carry TEN marks each.

1. Left superior vena cava. Embryological basis. How do you treat it?
2. What do you mean by obligatory shunt? What is its significance? Mention the different conditions in which it is present. How would you deal with it?
3. Univentricle. Types. How do you manage it?
4. Paediatric myocardium. What are the important variations when compared to adults?
5. What are the different types of DORV? Describe the surgical correction of any one.
6. What are the different types of DOLV? Describe the surgical correction of any one.
7. Hypoplastic L.V. Diagnosis, investigations and management.
8. What is cor- triatriatum? How will you manage it?
9. Describe the different types of congenital anomalies of the mitral valve. How will you treat them?
10. Congenital diaphragmatic hernia. Describe its management.



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M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER IV: RECENT ADVANCES

Monday, July 11, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. Minimally Invasive technique of Aortic valve replacement.
2. Endoscopic dissection of saphenous vein – Pros and Cons.
3. Use of stapplers in vascular surgery.
4. Heart transplant recent advances.
5. Neo ionotropic agents to support the failing heart.
6. Aortic stents.
7. Auto transfusion.
8. Recent advances in the pacemakers.
9. Epidural anesthesia for coronary bypass surgery.
10. Robotic Heart Surgeries.

