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M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER I: BASIC SCIENCES

Wednesday, July 13, 2016

| T: 14.00 17.00 II | | | |
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| | Time: 14:00 - 17:00 Hrs | | |

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Describe the surgical anatomy of the coronary Sinus. Outline the procedure of retrograde coronary sinus perfusion.

(20 marks)

Max. Marks: 100

2. Describe the Anatomy of the Trachea and discuss management of benign tracheal stenosis.

(20 marks)

- 3. Short Essay:
- 3A. Levosimendan
- 3B. Membrane Oxygenator
- 3C. Development of inter ventricular septum
- 3D. Swan Ganz catheter and its uses
- 3E. Rigid bronchoscope
- 3F. Virchow's triad

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$



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M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER II: CONGENITAL HEART SURGERY

Thursday, July 14, 2016

Time: 14:00 – 17:00 Hrs. Max. Marks: 100

- Answer ALL the questions.
- Z Long Essay:
- 1. Discuss the classification, clinical features and management of Transposition of Great Arteries.

(20 marks)

2. Describe the embryology and anatomy of complete vascular rings causing trachea-esophageal compression and management.

(20 marks)

- 3. Short Essay:
- 3A. Cyanotic spells etiology, clinical features, management
- 3B. Classification of Tricuspid Atresia
- 3C. Norwood procedure- Indication and technique
- 3D. Absent pulmonary valve syndrome clinical features, diagnosis, surgery
- 3E. Ebstein anamoly morphology, diagnosis and treatment
- 3F. Surgery for supravalvular Aortic stenosis discuss one technique briefly

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

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M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER III: ACQUIRED HEART DISEASE, GREAT ARTERIES, THORACIC

Friday, July 15, 2016

| Time: 14:00 – 17:00 Hrs. | Max. Marks: 10 |
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Answer ALL the questions.

∠ Long Essay:

1. Describe the surgical techniques of Tricuspid valve repair and merit / demerits of each technique.

(20 marks)

2. Classify bronchiectasis and discuss the clinical features, diagnosis and management.

(20 marks)

3. Short Essay:

- 3A. Management of Acute Aortic regurgitation clinical features and treatment
- 3B. Discuss the various approaches for Mitral valve surgery
- 3C. Atrial Myxoma-clinical features and management
- 3D. Classification of Aortic dissection
- 3E. Advantages and disadvantages of off pump coronary artery bypass surgery
- 3F. Enumerate causes for continuous cardiac murmurs briefly describe one of them

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$



M.Ch. (CARDIO VASCULAR AND THORACIC SURGERY) DEGREE EXAMINATION – JULY 2016

SUBJECT: PAPER IV: RECENT ADVANCES

Saturday, July 16, 2016

Time: 14:00 – 17:00 Hrs. Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss the different strategies for treatment of left ventricular failure after coronary artery bypass surgery.

(20 marks)

2. What are the advantages and implications of robots in cardiac surgery?

(20 marks)

- 3. Short Essay:
- 3A. Newer Oral anticoagulants
- 3B. Nitric oxide in pediatric cardiac surgery
- 3C. Recent advances in heart transplant
- 3D. Single port Video assisted thoracoscopic surgery
- 3E. Extra corporal life support. (ECLS)
- 3F. Advances in treatment of Atrial Fibrillation

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$