

M.Ch. Examination**Branch II : Cardio-Vascular & Thoracic Surgery****Paper-I****Date : 02-07-2019, Tuesday]****[Max. Marks : 100****Time : 3 Hours]**

Instructions : (1) Figure to the right indicates full marks.
(2) Draw diagram wherever necessary.
(3) Write legibly.

1. Discuss the developmental anatomy of coronary arterial tree. Describe the common patterns of coronary artery anatomy in TGA. (20)

 2. Describe the various bronchopulmonary segments of the lungs ; and their surgical importance. (20)

 3. Discuss the systemic inflammatory response following CPB (cardiopulmonary bypass) and the various end-organ damage due to prolonged bypass. (20)

 4. Describe the development of Interventricular septum. Discuss the various classifications of Ventricular septal defects . (20)

 5. Briefly discuss the differences between neonatal and adult myocardium. How does myocardial protection differ in the two ? (20)
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M.Ch. Examination
Branch II : Cardio-Vascular & Thoracic Surgery
(Basic, Applied & Clinical)
Paper-II

Date : 05-07-2019, Friday]

[Max. Marks : 100

Time : 3 Hours]

- Instructions :** (1) Figure to the right indicates full marks.
(2) Draw diagram wherever necessary.
(3) Write legibly.

1. Describe the clinical presentation and management of Chronic Pulmonary Thromboembolism. (20)

 2. A patient has got acute Type A dissection with flap extending into the femoral vessels. Describe the perfusion strategy to be used and the surgical principles of repair of this dissection. (20)

 3. Describe various chordal sparing techniques used in Mitral valve replacement. (20)

 4. Discuss the presentation and management of post-surgical Low Cardiac Output Syndrome in pediatric patients (< 5 years of age). (20)

 5. Discuss surgical treatment of various complications of advanced pulmonary tuberculosis (20)
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M.Ch. Examination
Branch II : Cardio-Vascular & Thoracic Surgery
(Basic, Applied & Clinical)
Paper-III

Date : 08-07-2019, Monday]

[Max. Marks : 100

Time : 3 Hours]

- Instructions :** (1) Figure to the right indicates full marks.
(2) Draw diagram wherever necessary.
(3) Write legibly.

1. Discuss management of a 35 year old patient operated for mechanical Mitral valve replacement 5 years back, who has now presented with Stuck valve. (20)
 2. Discuss newer antiplatelet agents and their present day clinical use. (20)
 3. Discuss the presentation, management and long-term results of cardiac myxomas. (20)
 4. Describe indications , techniques and results of ExtraCorporeal Membrane Oxygenation in the current era. (20)
 5. What are the various techniques described for surgical correction of TAPVC. (20)
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M.Ch. Examination**Branch II : Cardio-Vascular & Thoracic Surgery
(Modern Trends & Development in Surgery)****Paper-IV****Date : 10-07-2019, Wednesday]****[Max. Marks : 100****Time : 3 Hours]**

- Instructions :** (1) Figure to the right indicates full marks.
(2) Draw diagram wherever necessary.
(3) Write legibly.

1. Discuss the role of a surgeon in various types of percutaneous valve replacement therapy (20)
 2. Discuss the indications , techniques and results of lung transplant. (20)
 3. Describe the main findings (conclusions) in Syntax, Coronary and Freedom trials. (20)
 4. Intraoperative spinal cord ischemia (SCI)– Describe the steps used in monitoring for SCI and how to prevent and manage SCI. (20)
 5. Compare composition , usage and results of St Thomas vs Del Nido vs Custodiol cardioplegia solutions. (20)
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