M.Ch [Cardiovascular & Thoracic Surgery]

BF/2015/05

# Basic Sciences as related CVTS

**[Paper –I]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Describe fibrous skeleton of the heart. [10]

2. Describe various inotropic drugs & their role in cardiac surgery. [10]

3. Discuss anatomy of the coronary arteries. [10]

4. Discuss development of interatrial septum. [10]

5. Describe the surgical anatomy of tracheobronchial tree. [10]

6. Discuss the principles of cardio-pulmonary in a paediatric patient. [10]

7.Discuss pathophysiology of chronic constrictive pericarditis. [10]

8. Discuss the classification and pathology of benign tumours of the lung. [10]

9. Discuss pathophysiology of flail chest. [10]

10. Discuss the anatomy of internal mammary artery. [10]

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# Surgical Skills in CVTS

**[Paper –II]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Discuss management of empyema thoracic. [10]

2. Describe the current status of blalock-Tausing shunt in congenital heart diseases. [10]

3. Discuss role of thymertomy in myasthenia gravis. [10]

4. Discuss endovascular surgery. [10]

5. Discuss the merits and demerits of various arterial conduits used for myocardial revascularization. [10]

6. Describe the etiology of SVC syndrome and its surgical treatment. [10]

7. Discuss role of surgery in infective endocarditic. [10]

8. Discuss the indications and contra-indications of use of intra aortic balloon pump. [10]

9. Describe the technique merits and demerits of Ross’s procedure. [10]

10. Discuss various surgical procedures used for thoracic outlet syndrome. [10]

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# Investigative CVTS

**[Paper –III]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Discuss the etiology, pathophysiology and management of lung abscess. [10]

2. Write a note on endoscopic ultrasound. [10]

3. Discuss the pathological classification of lung cancer and its long term prognosis based on clinical staging. [10]

4. Briefly discuss various conotrucal anomalies. [10]

5. Discuss the role of cardiovascular magnetic resonance in congenital heart diseases. [10]

6. Discuss the various donor & recipient criteria for cardiac transplant. [10]

7. Discuss the various conduits used for Oesophagial replacement. [10]

8. Discuss patient prosthesis mismatch and its surgical management. [10]

9. Discuss the diagnosis & management of Chronic Constridive Pericarditis. [10]

10. Classify transposition of great arteries and discuss the management of a child presenting at one year of age. [10]

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# Recent advances in CVTS

**[Paper –IV]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Describe the various strategies for Total Arterial Revascularization of the heart. [10]

2. Describe video assisted mitral valve repair. What is the different strategy as compared to direct vision minimally invasive mitral valve repair? [10]

3. Describe percutaneous tracheostomy. What are its advantages and disadvantages as compared to conventional tracheostomy in post-operative cardiac surgical patients? [10]

4. Describe the silent features of American Heart Association 2014 guidelines for management of severe mitral regurgitation. [10]

5. Describe selective antegrade cerebral perfusion and its uses. [10]

6. Describe the left ventricular assist devices. [10]

7. Describe video assisted lobectomy of the lung. [10]

8. Describe the recent advances in the management of functional TR. [10]

9. Describe the endovascular surgical management of aortic aneurysms. [10]

10. Describe the current concepts in the management of mediastnitis and strategy to prevent mediastnitis following CABG. [10]

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