Write short notes on:

1. Aortic valve repair:
   a) Indications
   b) Various techniques
   c) Frater’s stitch 3+5+2

2. Non-coronary beating heart surgery:
   a) Indications
   b) Techniques
   c) Complications 5+3+2

3. Tricuspid valve:
   a) Anatomy
   b) Relation with A-V Node
   c) Various techniques of repair
   d) Anatomy in Ebstein’s anomaly 2+2+3+3

4. Heart failure:
   a) Classification
   b) Enumerate non transplant surgical therapies
   c) Role of mechanical circulatory support
   d) Types of ECMO 2+3+3+2

5. Atrial fibrillation:
   a) Classification
   b) Energy sources for ablation
   c) Surgical techniques
   d) Results 3+2+3+2

6. Tetralogy of Fallot with absent pulmonary valve:
   a) Clinical presentations
   b) Pathology
   c) Management 3+3+4

P.T.O.
7. Constrictive pericarditis;  
   a) Etiopathology  
   b) Differentiation with restrictive cardiomyopathy  
   c) Surgical approaches  
   d) Complications

8. One and half ventricle repair:  
   a) Indications  
   b) Surgical results

9. Cardiac tumors:  
   a) Cardiac tumours in childhood  
   b) Familial myxoma complex

10. Mechanical complications of myocardial infarctions:  
    a) Etiopathogenesis  
    b) Enumerate various complications  
    c) Management of mitral regurgitation and its result

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