

**B.Sc. CARDIAC TECHNOLOGY  
FIRST YEAR**

**PAPER III – PATHOLOGY, MICROBIOLOGY, CLINICAL  
FEATURES AND TREATMENT OF DISEASES PERTINENT  
TO CARDIAC TECHNOLOGY**

*Q.P. Code : 801503*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer All Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the Jones criteria for the diagnosis of Rheumatic Fever. Mention in brief the key pathological features of Acute Rheumatic Fever.
2. Explain in detail the pathogenesis and morphology of aortic aneurysms and aortic dissection.
3. Discuss the morphological changes of the heart in Myocardial Infarction. Enumerate the consequences and complications of Myocardial Infarction.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Pericardial effusion.
2. Takayasu arteritis.
3. Hypertensive heart disease.
4. Treatment for Infective Endocarditis.
5. Left heart failure.
6. Hypertrophic cardiomyopathy.
7. Conduction system of the heart.
8. Risk factors for atherosclerosis.

**III. Write Notes on:**

**(10 x 3 = 30)**

1. Aortic regurgitation.
2. Coarctation of aorta.
3. Percutaneous interventions in Coronary Artery Disease.
4. Name any three Congenital Heart Disease's.
5. Ebstein anomaly.
6. Give three treatment options for arrhythmias.
7. Ambulatory ECG monitoring.
8. Complications of Pulmonary Hypertension.
9. Name any three diseases characterized by cardiac hypertrophy.
10. Sudden cardiac death.

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