

B.Sc. CARDIAC TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

Paper II – PATHOLOGY, MICROBIOLOGY AND PHARMACOLOGY
RELATED TO CARDIAC TECHNOLOGY

Q.P. Code : 801509

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Classify and mention the risk factors of hypertension. Briefly discuss about role of kidney in regulation of blood pressure.
2. What are the conditions affecting the heart valve? Discuss in detail about morphological changes in mitral valve in rheumatic heart disease.
3. What is aneurysm? Name two causes of aneurysm and describe the morphology.

II. Write Notes on:

(8 x 5 = 40)

1. Mitral valve prolapse.
2. Classification and mechanism of action of anti-arrhythmic drugs.
3. Risk factors in ischemic heart disease.
4. Classify cyanotic congenital heart diseases and describe the shunt mechanism.
5. Mention the microscopic changes in myocardial infarction.
6. What are the causes of dilated cardiomyopathy and gross appearance in this condition?
7. Predisposing factors for pulmonary hypertension.
8. Left atrial myxoma.

III. Short Notes on:

(10 x 3 = 30)

1. Coarctation of aorta.
2. Pulmonary embolism.
3. Angioplasty.
4. Causes of left sided heart failure.
5. Ventricular septal defect.
6. Classify calcium channel blockers.
7. Churg-Strauss syndrome.
8. Major risk factors of atherosclerosis.
9. Mention the infective and non-infective causes of pericarditis.
10. Thromboangitis obliterans.
