

**DETAILED SYLLABUS FOR THE POST OF ASSISTANT PROFESSOR  
(CARDIOLOGY) (MEDICAL EDUCATION)**

TOTAL : 100 MARKS

**Module 1 “ Part I : BASIC CARDIOLOGY (10 Marks)**

- 1 Applied cardiac anatomy, applied cardiac physiology  
Pharmacology embryology and pathology ( 3 MARKS)
- 2 Cardiac evaluation by investigations : electrocardiogram, Xray  
Chest PA view ,cOronary angiography , echocardiography  
stress echo cardiography strain imaging. 3 D and 4 D  
imaging of disease states Right hreart catheterisation, Left  
heart ctheterisation, Stress test, cardiovascular CT and MRI  
PET scan and viability assessment. Physiological assessment  
of CAD ( 5 marks)
- 3 Genetic in CVD, gene therapy in CVD (2 marks)

**Module 2 PART II CLINICAL CARDIOLOGY (15 marks)**

Clinical cardiology

Epidemiology , etiopathogenesis Clinical features diagnosis, differential  
diagnosis, tresatment compliations prognosis and prevention of the  
following disease sates ( 5 marks each)

- i) Atherosclerotic heart disease- ACS CCS
- ii) Valvular heart disease and infective endocarditis
- iii) CHD in infants , children adults -both cyanotic and acyanotic

**Module 3 (15 Marks)**

Epidemiology , etiopathogenesis Clinical features diagnosis, differential  
diagnosis, tresatment compliations prognosis and prevention of the  
following disease sates ( 5 marks each)

- a) Heartfailure mangemnt - ADHF and CHF
- b) Hypertension
- c) Cardiac arryhtmia management - medical antiarrythmic therapy  
and interventional mangemnt, SCD and its evaluation and  
management

**Module 4 :** Epidemiology , etiopathogenesis Clinical features diagnosis,  
differential diagnosis, tresatment compliations prognosis and prevention  
of the following disease sates ( 5 marks)

a) Cardiomyopathy

**Module 5 : (5 marks)**

a) Pericardial diseases

**Module 6 (10 marks)**

a) Infective endocarditis (5 marks)

b) Prosthetic valve disease and percutaneous valve replacements (5 marks)

**Module 7 (5 marks)**

a) Pulmonary Hypertension and primary PAH

**Module 8 : (10 marks)**

a) Stroke and CVD (5 marks)

b) Atrial fibrillation management (5 marks)

**Module 9 (5 marks)**

a) Anaesthesia in non cardiac surgery

**Module 10 (20 marks)**

a) Aortic diseases and interventions (5 marks)

b) Peripheral arterial occlusive disease and its management (5 marks)

c) DM and dyslipidemia management and CVD (5 marks) and  
Pregnancy and CVD (5 marks)

d) Pulmonary embolism) and its management (5 marks)

**NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper**

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