

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

(Cat.Nos. : 188/2024, 537/2024, 633/2024, 752/2024, 753/2024)

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 heart catheterisation, Left
heart catheterisation, 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, treatment complications prognosis and prevention of the
following disease states (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, treatment complications prognosis and prevention of the
following disease states (5 marks each)

- a) Heart failure management - ADHF and CHF
- b) Hypertension
- c) Cardiac arrhythmia management - medical antiarrhythmic therapy
and interventional management, SCD and its evaluation and
management

Module 4 : Epidemiology , etiopathogenesis Clinical features diagnosis, differential diagnosis, treatment complications prognosis and prevention of the following disease states (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 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
