

Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – DECEMBER 2023

PAPER I

Monday, December 11, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

1. P2Y12 ADP receptor antagonists. Describe shortly each of them with special focus on newer antagonists.

(20 marks)

2. Management of patients with Hypertrophic cardiomyopathy. Add notes on genetic analysis and Alcohol septal ablation.

(20 marks)

3. **Write Short Notes on:**

3A. Percutaneous mitral valve repair

3B. Apixaban

3C. Clinical implications of strain and strain rate imaging

3D. Cardio renal syndrome

3E. Stress cardiomyopathy

3F. IVUS

(10 marks × 6 = 60 marks)



Reg. No.																			
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – DECEMBER 2023

SUBJECT: PAPER II

Tuesday, December 12, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Discuss mechanical complications after myocardial infarction and their management.
(20 marks)

2. Discuss pathophysiology, clinical presentation and management of coronary in-stent restenosis.
(20 marks)

3. **Short Notes:**

- 3A. Spontaneous coronary dissection.
- 3B. Drug eluting balloons.
- 3C. Transplant coronary artery disease.
- 3D. Ticagrelor.
- 3E. Vulnerable plaque.
- 3F. Role of coronary angiography and revascularization in sudden cardiac death survivors.
(10 marks × 6 = 60 marks)



Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – DECEMBER 2023

SUBJECT: PAPER III

Wednesday, December 13, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss in detail clinical, echo and catheterization features of Patent Ductus Arteriosus with interventional management.

(20 marks)

2. Discuss the hemodynamics, causes and management of acute mitral regurgitation.

(20 marks)

3. **Write Short notes on:**

3A. Give a brief account on Fontan procedure.

3B. Prophylaxis against Rheumatic fever.

3C. Choice of prosthetic valve

3D. Diagnosis of aortic pseudostenosis.

3E. Anticoagulation in a pregnant woman with prosthetic valve.

3F. Coarctoplasty.

(10 marks × 6 = 60 marks)



Reg. No.																			
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – DECEMBER 2023

SUBJECT: PAPER IV

Thursday, December 14, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Diagnosis, management strategies in atrial fibrillation with emphasis on non pharmacological therapy.

(20 marks)

2. Discuss in detail the haemodynamics of constrictive pericarditis.

(20 marks)

3. **Write Short notes on:**

3A. Thrombolytic therapy for Acute Pulmonary Embolism.

3B. Tachycardia cardiomyopathy

3C. Multi site LV pacing.

3D. Endovascular stenting for aortic aneurysm

3E. Cangrelor.

3F. Rota blators.

(10 marks × 6 = 60 marks)

