

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER I

Monday, July 18, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essay:**

1. Discuss the fetal circulation and the changes that happen soon after birth.
(20 marks)

2. Classify lipoproteins and discuss their role in cholesterol transport. Briefly discuss common genetic abnormalities in cholesterol transport.
(20 marks)

3. **Short Notes:**

3A. Amyloid heart

3B. Cardiac ion channels and common defects

3C. Genetics of Hypertrophic cardiomyopathy

3D. Tissue Doppler imaging

3E. Pharmacologic cardioversion

3F. Anatomy of conduction system of heart

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER II

Tuesday, July 19, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

1. Discuss how to localize infarct related artery from ECG in acute MI?
(20 marks)

2. Discuss various options to assess myocardial viability after acute MI.
(20 marks)

3. **Write short notes on:**

3A. Reperfusion injury

3B. Intra aortic balloon pump

3C. Cardiac rupture

3D. Myocardial infarction without coronary atherosclerosis

3E. Tachycardiomyopathy

3F. Takayasu's arteritis

(10 marks × 6 = 60 marks)



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SUBJECT: PAPER III

Wednesday, July 20, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Discuss the clinical, echo cardiographic features of Infective endocarditis and its management.

(20 marks)

2. Explain the Clinical, Echocardiographic features and Hemodynamic appearances of pressure curves of Pulmonary Stenosis and its interventional management.

(20 marks)

3. **Write Short notes on:**

3A. Indications, contraindications and technique of device closure of atrial septal defect

3B. Acute rheumatic fever

3C. Discuss the overall view of prosthetic tissue valves

3D. Extra Corporeal Membrane Oxygenation

3E. BT shunt

3F. Interventional management of Mitral regurgitation

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2022

SUBJECT: PAPER IV

Thursday, July 21, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss the clinical, echo cardiographic, cardiac catheterization in the diagnosis and management of Cardiac Tampanade.

(20 marks)

2. Endomyocardial disease-Discuss epidemiology, clinical presentation, diagnosis and management.

(20 marks)

3. **Write Short notes on:**

3A. LAA Closure

3B. Pathophysiology, clinical presentation, diagnosis and treatment of long RP tachycardia.

3C. ECG changes in electrolyte abnormalities.

3D. Impella device.

3E. Cardiac Autonomic Neuropathy.

3F. SYNTAX Score and its limitations

(10 marks × 6 = 60 marks)

