

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2018
SUBJECT: PAPER I: BASIC SCIENCES

Monday, July 09, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer ALL the questions.**

 **Long Essay:**

1. Discuss the physiology of common ion channels in relation to action potentials and discuss various common channelopathies.

(20 marks)

2. Discuss the development of aortic arch and common anomalies of aortic arches.

(20 marks)

3. **Write short notes on:**

3A. Stunned myocardium and hibernating myocardium

3B. Cardiac cycle

3C. Neurohumoral mechanism of heart failure

3D. Molecular imaging of cardiovascular system

3E. Dynamic auscultation

3F. Methods of measurement of cardiac output

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2018

SUBJECT: PAPER II: ISCHEMIC HEART DISEASE

Tuesday, July 10, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Describe the benefits, strategy and complications of Revascularisation in chronic total occlusion.

(20 marks)

2. Describe in detail about Post MI risk stratification and cardiac rehabilitation.

(20 marks)

3. **Write Short notes on:**

3A. Large thrombus burden in acute MI

3B. IABP

3C. Coronary bioreabsorbable vascular scaffolds

3D. Dresslers syndrome

3E. Stress myocardial perfusion imaging

3F. ICD

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2018
SUBJECT: PAPER III: CONGENITAL AND VALVULAR HEART DISEASE

Wednesday, July 11, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Discuss the classification of atrioventricular canal defects, their clinical diagnosis and management.

(20 marks)

2. Discuss diagnosis, treatment and prevention of acute rheumatic fever.

(20 marks)

3. **Write short notes on:**

3A. Ischemic mitral regurgitation

3B. Indications of surgery in endocarditis

3C. Acute aortic regurgitation

3D. Tetralogy of fallot with absent pulmonary valve

3E. Management of Eisenmenger syndrome

3F. Supravalvar aortic stenosis

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2018
SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES

Thursday, July 12, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Discuss the various cardiac tumours and their presentation.
(20 marks)

2. Discuss the causes, diagnosis and management of heart failure with preserved ejection fraction.
(20 marks)

3. **Write short notes on:**
 - 3A. Extra Corporeal Membrane Oxygenation
 - 3B. Ablation of VT
 - 3C. Atrial flutter
 - 3D. Cardiac resynchronisation therapy
 - 3E. Complications of cardiac transplant
 - 3F. IVC filter

(10 marks × 6 = 60 marks)

