MANIPAL ACADEMY OF HIGHER EDUCATION DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER I: BASIC SCIENCES

Wednesday, July 01, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Z Answer ALL the questions.
- ∠ Long Essay:
- 1. Briefly outline the causes of syncope and describe your approach to a patient with syncope with special focus on diagnostic tests.

(20 marks)

2. Define continuous murmur. Mention any five causes of continuous murmur and the characteristic features of each.

(20 marks)

- 3. Write Short notes on:
- 3A. Acute fulminant myocarditis
- 3B. Sick sinus syndrome
- 3C. Stress echocardiography
- 3D. Low gradient severe aortic stenosis
- 3E. CRT D
- 3F. Exercise testing in non atherosclerotic heart disease

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER II: ISCHEMIC HEART DISEASE

Thursday, July 02, 2020

Time: $14:00 - 17:00$ Hrs.	Max. Marks: 100

- ∠ Answer ALL the questions.
- ∠ Long Essay:
- 1. Briefly outline the benefits of echocardiogram in post MI patients.

(20 marks)

2. Rotational atherectomy in coronary interventions - mechanism, procedure, indications and contraindications.

(20 marks)

- 3. Write short notes on:
- 3A. Stent thrombosis
- 3B. Hybrid coronary revascularisation
- 3C. Saphenous vein graft interventions
- 3D. No reflow phenomenon
- 3E. ECMO
- 3F. Coronary Bifurcation lesions

 $(10 \text{ marks} \cdot 6 = 60 \text{ marks})$

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER III: CONGENITAL AND VALVULAR HEART DISEASE

Friday, July 03, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Z Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss the role of clinical examination, Echocardiography and Cardiac Catheterization in the management of Atrial Septal Defect.

(20 marks)

2. Discuss the etiology, diagnosis and management of Tricuspid valve disease.

(20 marks)

- 3. Write Short notes on:
- 3A. How will you measure cardiac output in the catheterization laboratory?
- 3B. Eisenmenger syndrome
- 3C. Treatment of prosthetic valve thrombosis
- 3D. Atrial Septostomy
- 3E. Asplenia syndrome
- 3F. Intra cardiac echocardiography

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

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MANIPAL ACADEMY OF HIGHER EDUCATION

DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES

Saturday, July 04, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ∠ Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss the causes, evaluation and management of secondary hypertension.

(20 marks)

2. Discuss the causes and differentiation of various narrow QRS tachycardias. Briefly mention the therapeutic options in them.

(20 marks)

- 3. Short Notes:
- 3A. Ablation of ventricular tachycardias
- 3B. Arrhythmias in congenital heart disease
- 3C. Stress cardiomyopathy
- 3D. Echo signs of constrictive pericarditis
- 3E. Hemodynamics of cardiac tamponade
- 3F. Localisation of accessory pathway from surface ECG

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

