Reg. No.				

# MANIPAL ACADEMY OF HIGHER EDUCATION DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2019

SUBJECT: PAPER I: BASIC SCIENCES

Tuesday, July 09, 2019

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Time:	14:00	-1/.	UU	IIIS.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay
- 1. Discuss Anatomy and Physiology of normal coronary artery circulation in health and disease. (20 marks)
- 2. Discuss Foetal Circulation.

(20 marks)

- 3. Write short notes on:
- 3A. Clinical morphology of the RV outflow tract
- 3B. Genetics of hypertrophic cardiomyopathy
- 3C. What is Laplace law? Describe its clinical application
- 3D. Lipoprotein a
- 3E. Newer oral anticoagulant
- 3F. Short QT syndrome



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## MANIPAL ACADEMY OF HIGHER EDUCATION DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2019

SUBJECT: PAPER II: ISCHEMIC HEART DISEASE

Wednesday, July 10, 2019

Time:	14.00	-17	.00	Hrs
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Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss the non invasive management options in non ST elevation myocardial infarction.

(20 marks)

2. Discuss the principles, indications, results, complications and technical aspects of rotablation.

(20 marks)

- 3. Write short notes on:
- 3A. Role of cardiac MRI in myocardial infarction patients
- 3B. Mitral regurgitation after acute MI
- 3C. Conduits for CABG
- 3D. Management of infra renal aortic aneurysms
- 3E. Athletes heart
- 3F. Contrast nephropathy



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#### MANIPAL ACADEMY OF HIGHER EDUCATION

#### DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2019

SUBJECT: PAPER III: CONGENITAL AND VALVULAR HEART DISEASE

Thursday, July 11, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Eisenmenger's Physiology and its Management

(20 marks)

2. Hypoplastic Left Heart Syndrome. Clinical Features and Management

(20 marks)

- 3. Write short essay on:
- 3A. Congenital Complete Heart Block
- 3B. Fetal Circulation and its difference from Adult Circulation
- 3C. Anomalous Origin of Left Coronary Artery from Pulmonary Artery
- 3D. Cyanotic Spell and its Management
- 3E. Assessment of Operability in Shunt Lesions
- 3F. Low Flow Low Gradient Aortic Stenosis

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### MANIPAL ACADEMY OF HIGHER EDUCATION DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2019

SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES

Friday, July 12, 2019

m'	1 4 00	` .	7 00	TT	
Time:	14.()(	) —	1 / · ()()	Hrs	

Max. Marks: 100

- Answer ALL the questions.
- Z Long Essay:
- 1. Discuss about alcohol septal ablation therapy-indications, technique, contraindications and results.

(20 marks)

2. Etiology, clinical features, diagnosis and management of acute pulmonary embolism.

(20 marks)

- 3. Write short notes on:
- 3A.\* PFO closure
- 3B. Pathophysiology, clinical presentation, diagnosis and treatment of Short RP tachycardia
- 3C. Brugada syndrome
- 3D. Endovascular stenting for dissection of aorta
- 3E. Carotid artery stenting
- 3F. Genotypic variations in the efficacy of clopidogrel

