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## DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER I: BASIC SCIENCES

Monday, July 10, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

#### ∠ Long Essay:

1. Discuss Mitral valve apparatus in health and disease.

(20 marks)

2. Discuss the Cardiac Ion Channels and their role in arrhythmogenesis.

(20 marks)

- 3. Write short notes on:
- 3A. Cardiac pre excitation syndromes
- 3B. Takayasu arteritis
- 3C. Right ventricle
- 3D. Describe the pathology of Aschoff nodules
- 3E. Development of Cardiac conduction system
- 3F. LDL metabolism



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# DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER II: ISCHEMIC HEART DISEASE

Tuesday, July 11, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

### ∠ Long Essay:

1. Describe the evaluation and management of diastolic heart failure.

(20 marks)

2. Enumerate the techniques of Bifurcation stenting. Discuss any four techniques in detail.

(20 marks)

#### 3. Write short notes on:

- 3A. Biomarkers in acute coronary syndrome
- 3B. Post myocardial infarction risk stratification
- 3C. Optical coherence tomography-technique, indications
- 3D. Describe in detail anticoagulation in atrial fibrillation.
- 3E. Facilitated versus rescue percutaneous coronary intervention in ST elevation myocardial infarction
- 3F. Current indications and limitations of computed tomographic coronary angiography



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## DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER III: CONGENITAL AND VALVULAR HEART DISEASE

Wednesday, July 12, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

#### ∠ Long Essay:

1. Discuss the definition, pathophysiology, clinical features, diagnosis and management of hypoplastic left heart syndrome.

(20 marks)

2. Discuss the timing of surgery in chronic mitral and aortic regurgitation and their rationale.

(20 marks)

- 3. Write short notes on:
- 3A. Congenital mitral valve disease
- 3B. Low gradient aortic stenosis
- 3C. Double chambered right ventricle
- 3D. Bioprosthetic valves
- 3E. Pulmonary AV fistula
- 3F. Sub aortic stenosis



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## DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES

Thursday, July 13, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

#### ∠ Long Essay:

1. Discuss the diagnostic modalities in acute pulmonary embolism.

(20 marks)

2. Discuss the pathophysiology and hemodynamics of cardiac tamponade and constrictive pericarditis with special reference to echo and catheterisation findings.

(20 marks)

#### 3. Write short notes on:

- 3A. Ablation of atrial fibrillation
- 3B. Brugada syndrome
- 3C. Surgical options in heart failure
- 3D. Diagnosis of wide QRS tachycardia
- 3E. Resistant hypertension
- 3F. Septal ablation