

POST-DOCTORAL DEGREE EXAMINATION – AUGUST 2021

D.M. CARDIOLOGY

Time: 3 Hours

Max. Marks: 100

PAPER – I

Basic Sciences as applied to Cardiology

Q.P. Code: 1501

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss embryology of coronary sinus and its implications in percutaneous interventions.
2. Aortic arch embryology and discuss arch anomalies.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. ALCAPA (Anomalous origin of Left Coronary Artery from Pulmonary Artery).
4. Fontan circulation.
5. S₃ mechanism in health and disease.
6. Myocardial Biopsy.
7. Left ventricular remodeling.
8. Koch's triangle and its clinical application.

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PAPER – II

Ischemic Heart Disease and Congenital Heart Disease

Q.P. Code: 1502

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss various acute aortic syndromes. Discuss in detail approach to patient of aortic dissection and its management.
2. Discuss in detail management of atrial fibrillation.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Classify pulmonary arterial hypertension and how do you assess operability.
4. Bifurcation stenting.
5. Biventricular pacing.
6. Discuss the etiopathogenesis and management of Peripartum cardiomyopathy.
7. Acute vessel closure.
8. Complications of ST- segment Elevation Myocardial Infarction (STEMI).

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PAPER – III
RHD, Hypertension, Cardiomyopathy and other
Cardiovascular Diseases

Q.P. Code: 1503

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the pathophysiology & management of restrictive cardiomyopathy.
2. Discuss the optimal revascularization technique for ST- segment Elevation Myocardial Infarction (STEMI) in Indian scenario.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Ischemia trial.
4. Blalock – Taussig (B. T.) stunt.
5. Athlete heart.
6. Syntax score and its application
7. Primary and secondary cardiac tumours.
8. Percutaneous mitral value repair.

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PAPER – IV
Recent Advances in Cardiology

Q.P. Code: 1504

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Basic principle and clinical application of Optical Coherence Tomography (OCT) in patient with coronary artery disease.
2. Discuss the clinical differences between heart failure with reduced ejection fraction and preserved ejection fraction. Discuss the role of Angiotensin Receptor Neprilysin Inhibitor (ARNI) in both situations.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Omecamtiv mecarbil.
4. Percutaneous management of paravalvular leak.
5. Virtual histology.
6. De-escalation strategies for DAPT (Dual antiplatelet therapy) post Percutaneous Coronary Intervention (PCI).
7. Renal artery stenosis clinical manifestations & management.
8. Proprotein Convertase Subtilisin/ Kexin 9 (PCSK 9) inhibitors.
