

**QP Code:**

**Reg.No.:**.....

**D.M. (Cardiology) Degree Examinations  
(Model Question Paper)**

**Paper I – Basic Sciences**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss the development, anatomy and congenital abnormalities of the coronary system.

**Short essays:**

**(8x10=80)**

2. Concealed conduction
3. Hibernating myocardium
4. Structure of myocardium in relation to contractility
5. Pathophysiology of pulsus alternans
6. Role of infections in atherosclerotic cardiovascular disease
7. Nitric oxide
8. Cardiac apoptosis
9. Genetics of hypertrophic cardiomyopathy

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**Paper II – Clinical Cardiology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss the pathophysiology, diagnostic evaluation and management of restenosis after revascularization procedures.

**Short essays:**

**(8x10=80)**

2. Determination of situs in congenital heart disease
3. Importance of jugular venous pulsation in clinical cardiology
4. Assessment of severity of pulmonary stenosis
5. Life style modifications for optimizing cardiovascular risks
6. Compensatory ductus arteriosus
7. Athlete's heart
8. Refractory hypertension
9. Pregnancy and prosthetic cardiac valves.

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**Paper III – Cardiac Investigations and Therapeutics**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss the role of audio frequency ablation in the management of tachyarrhythmias

**Short essays:**

**(8x10=80)**

2. Plasma natriuretic peptides and its role in cardiovascular disease
3. Role of multislice CT in coronary artery imaging
4. Assessment of diastolic dysfunction of the heart
5. Newer antiplatelet agents
6. Clinical utility of intra vascular ultrasound (IVUS)
7. Surgery for ebsteins anomaly
8. Homocysteine and cardiovascular disease
9. Total ischemic burden

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**Paper IV – Recent Advances in Cardiology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Describe the classification of bifurcation lesions with reference to technical difficulties in intervention and discuss the techniques in bifurcation angioplasty

**Short essays:**

**(8x10=80)**

2. Current status of renal artery revascularization
3. Applications of telemedicine in cardiology
4. Stem cell therapy – current concepts
5. Endothelin antagonists
6. Ventricular assist devices
7. Percutaneous mitral valve repair
8. Insulin secretagogues and insulin sensitizers in cardiovascular disease
9. Role of tissue Doppler imaging in cardiovascular diagnosis

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