

**MANIPAL UNIVERSITY****DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2012****SUBJECT: PAPER I: PRINCIPLES & PRACTICE OF CARDIOLOGY – BASIC SCIENCE  
BEARING CARDIOLOGY**

Saturday, July 07, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions carry TEN marks each.**

✍ **Write briefly on:**

1. Anomalies of the Aortic Arch
2. Evaluation of Diastolic Dysfunction by Echocardiography
3. Quantitative Coronary Angiography (QCA)
4. Newer agents for Thrombolysis in Acute Myocardial Infarction
5. Pressure –Volume Loops of the Left Ventricle
6. Pathobiology of Acute Rheumatic Fever
7. Atherosclerosis and the implicated infectious agents
8. The Mechanisms of Tachyarrhythmias
9. The current and expected burden of Heart Diseases in India
10. Utility of Three Dimensional (3D) Echocardiography



**MANIPAL UNIVERSITY****DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2012****SUBJECT: PAPER II: CORONARY ARTERY DISEASES**

Monday, July 09, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions carry TEN marks each.**

1. P2Y 12 inhibitors
2. CT Coronary Angiography – Limitations and indications
3. Second generation DES
4. Epidemiology of CAD epidemic in India
5. Polypill
6. Vulnerable plaque – Detection and management
7. Universal definition of Myocardial infarction
8. Risk stratification in NSTEMI
9. Glycoprotein 2b/3a inhibitors in ACS
10. Bivaluridin



**MANIPAL UNIVERSITY****DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2012****SUBJECT: PAPER III: CONGENITAL AND RHEUMATIC HEART DISEASES**

Wednesday, July 11, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **All questions carry TEN marks each.**

1. Foetal Echo Cardiography
2. AV Canal
3. Pulmonary Autografts
4. Non surgical management of congenital heart disease
5. Prophylaxis against Rheumatic Heart Disease
6. Long QT syndrome
7. Foetal circulation
8. Calculation of pulmonary vascular resistance
9. Development of IVC and venacaval Anomalies
10. Palliative procedures for congenital heart diseases



**MANIPAL UNIVERSITY****DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2012****SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES**

Friday, July 13, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions carry TEN marks each.**

✍ **Write briefly on:**

1. Diagnosis and management of Non-Specific Aorto-arteritis
2. Non-Invasive Investigations in Syncope of Cardiac Origin
3. Brain Natriuretic Peptide (BNP) and Heart Failure
4. Utility of Permanent Pacing in Neuro-Cardiogenic Syncope and Hypersensitive Carotid Sinus Syndrome
5. Arrhythmogenic Right Ventricular Dysplasia
6. Current Recommendations for the Prophylaxis for Infective Endocarditis
7. Left Ventricular Non-Compaction
8. Utility of Radio-Frequency Ablation in Atrial Fibrillation
9. Advances in the Management of Acute Cardiogenic Pulmonary Edema (ACPE)
10. Diagnosis of Acute Pulmonary Embolism

