

**MANIPAL UNIVERSITY****DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2014****SUBJECT: PAPER I: PRINCIPLES & PRACTICE OF CARDIOLOGY – BASIC SCIENCE  
BEARING CARDIOLOGY**

Saturday, July 05, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Histopathology of unstable plaque
2. Opening snap
3. Right ventricular dysplasia
4. Embryology of the aortic arch and briefly explain its development anomalies
5. Molecular genetics of hypertrophic cardiomyopathy
6. Anatomy of AV – Node
7. Systolic Time Interval
8. Ion channels in the Heart
9. Cardiac involvement in HIV infection
10. Microbiology of prosthetic valve endocarditis



## MANIPAL UNIVERSITY

DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2014

SUBJECT: PAPER II: CORONARY ARTERY DISEASES

Monday, July 07, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ All questions carry TEN marks each.

1. Advances in thrombolytic therapy
2. Hormone Replacement Therapy (HRT) and Coronary Artery Disease
3. Biventricular pacing
4. Antiplatelet agents
5. Reperfusion strategies
6. Stunning
7. Newer Antihypertensive drugs
8. Apoptosis
9. Novel Atherosclerotic Risk factors
10. Myocarditis



**MANIPAL UNIVERSITY****DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2014****SUBJECT: PAPER III: CONGENITAL AND RHEUMATIC HEART DISEASES**

Wednesday, July 09, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Current Epidemiology of Rheumatic heart Disease with special reference to the Indian Subcontinent.
2. The Norwood Operation.
3. Mitral Restenosis after Balloon Mitral Valvotomy.
4. Complications of the Eisenmenger Syndrome.
5. Congenital Complete Heart Block.
6. Low Flow, Low Gradient Aortic Stenosis.
7. Device Closure of Atrial Septal Defects.
8. Circulatory transition from the Foetal to the Adult Circulatory State.
9. Genetics of Congenital Heart Diseases.
10. Utility of Magnetic Resonance Imaging (MRI) in Congenital Heart Diseases.



**MANIPAL UNIVERSITY****DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2014****SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES**

Friday, July 11, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Pathogenesis of Infective Endocarditis.
2. “TAKO-TSUBO” or “BROKEN HEART SYNDROME”.
3. Risk Stratification and Sudden Cardiac Death.
4. Giant Cell Myocarditis.
5. Hemodynamics in Cardiac Tamponade and Constrictive Pericarditis.
6. Roentgenologic Features of Acute Pulmonary Embolism.
7. Obstructive Sleep Apnea.
8. Cardiac Disorders in Muscular Dystrophy Syndromes.
9. Current Management of Primary Pulmonary Hypertension.
10. Current Indications for Implantation of the Cardioverter Defibrillator (ICD).

