

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER I: PRINCIPLES & PRACTICE OF CARDIOLOGY – BASIC SCIENCE
BEARING CARDIOLOGY

Tuesday, July 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

All questions carry TEN marks each.

1. Development of the Interventricular Septum (IVS) and the anomalies that could result due to its maldevelopment.
2. Histology of the Cardiac Conduction System.
3. Genetics of Hypertrophic Cardiomyopathy.
4. The Second Heart Sound in Congenital Heart Diseases.
5. Calculation of Mitral and Aortic Valve areas by the Gorlin's Formula.
6. Mechanisms of the Hypercyanotic Spell.
7. Cardiac Biomarkers.
8. Direct Renin Inhibitors.
9. Pathology of the Heart in Sudden Cardiac Death.
10. Newer Three Dimensional (3D) Mapping Systems in the evaluation of arrhythmias.



MANIPAL UNIVERSITY**DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2011****SUBJECT: PAPER II: CORONARY ARTERY DISEASES**

Thursday, July 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ All questions carry TEN marks each.

1. Fondaparinux.
2. Natural history of bypass grafts.
3. Off pump verses on pump in CABG.
4. Role of aspirin in primary prevention.
5. Problems associated with prosthetic valves and their management
6. Myocardial viability assessment.
7. Antiplatelet resistance.
8. Assessment of borderline lesions.
9. Newer anticoagulation agents.
10. Pathophysiology of myocardial infarction.



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER III: CONGENITAL AND RHEUMATIC HEART DISEASES

Saturday, July 09, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Idiopathic pulmonary artery hypertension.
2. Predictors of success for PTMC.
3. Fontan physiology.
4. Hypoplastic left heart syndrome.
5. Determination of shunt fractions and PVR.
6. ARVD.
7. Single ventricle.
8. Epidemiology of RHD in India.
9. Diagnosis of Rheumatic fever.
10. Mitral valve repair by percutaneous mode.



Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES

Monday, July 11, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. Cardiac resynchronisation therapy.
2. Syntax score and clinical application.
3. Options for refractory heart failure.
4. Sudden cardiac arrest – evaluation and management.
5. Primary tumours of the heart.
6. Resistant hypertension.
7. Metabolic modulators in heart failure.
8. Regression of Atherosclerosis.
9. Smoking de addiction – Management.
10. Oral Anti Xa factors.

