

MANIPAL UNIVERSITY**DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2009****SUBJECT: PAPER I: PRINCIPLES & PRACTICE OF CARDIOLOGY – BASIC SCIENCE
BEARING CARDIOLOGY**

Wednesday, July 01, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Write briefly on:

1. Anatomy of the Right Atrium with special reference to the areas involved in Arrhythmias.
2. Common Anomalies of the Coronary Arteries.
3. Hemodynamic Parameters of Left Ventricular Function.
4. Newer drugs for Heart Failure treatment.
5. Calculation of Left-to-Right, Right-to-Left and Bidirectional Shunts.
6. Diabetic Dyslipidemia.
7. Microbiology of Prosthetic Valve Endocarditis.
8. Histopathology in various grades of Atherosclerosis.
9. Epidemiological Transitions.
10. Rotational Angiography.



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DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2009

SUBJECT: PAPER II: CORONARY ARTERY DISEASES

Thursday, July 02, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Write briefly on:

1. Newer Risk factors of Ischemic Heart Disease.
2. Reperfusion Arrhythmias in Acute Myocardial Infarction.
3. Contrast Induced Nephropathy.
4. Thrombolytic Therapy versus Percutaneous Coronary Intervention (PCI) in Acute Myocardial Infarction.
5. Atypical Angina Pectoris.
6. The basis of Electrocardiographic changes in Acute Myocardial Infarction.
7. Bifascicular Block in Acute Myocardial Infarction.
8. Aggressive Therapy of Unstable Angina Pectoris.
9. Primary Prevention in Ischemic Heart Disease.
10. Radionuclide Imaging Techniques of Myocardial Ischemia.



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SUBJECT: PAPER III: CONGENITAL AND RHEUMATIC HEART DISEASES

Friday, July 03, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Write briefly on:

1. Pathophysiology of Calcific Aortic Stenosis.
2. Assessment of Left Ventricular Function in Mitral Regurgitation.
3. Rheumatic Tricuspid Stenosis in Mitral Stenosis.
4. Anomalous Origin of the Left Coronary Artery from the Pulmonary Artery.
5. Echocardiography in Acute Rheumatic Fever.
6. The Lutembacher's Syndrome.
7. The Fontan-Procedure requiring lesions of Congenital Heart Diseases.
8. The Anatomy of the Patent Ductus Arteriosus (PDA) with reference to either Device Closure or Coil Closure.
9. Restrictive Right Ventricular Physiology in post Tetralogy of Fallot total correction.
10. Diagnostic utility of Trans-Esophageal Echocardiography (TEE) in Congenital Heart Diseases.



MANIPAL UNIVERSITY**DM (CARDIOLOGY) DEGREE EXAMINATION – JULY 2009****SUBJECT: PAPER IV: OTHER CARDIO VASCULAR DISEASES**

Saturday, July 04, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Rate adaptation pacing.
2. Endo vascular therapy in aortic dissection.
3. Non pharmacological treatment for atrial flutter and the success rate.
4. Brugada syndrome.
5. Pregnancy and prosthetic valves.
6. Management of aorto artiritis.
7. Cardiac resynchronization therapy.
8. Role of stem cell transplantation in cardiovascular disease.
9. Diagnosis and management of pulmonary thrombo embolic.
10. Intra operative Trans oesophageal echocardiogram.

