FINAL EXAM
DECEMBER 2010

NATIONAL BOARD OF EXAMINATIONS

CARDIOLOGY

PAPER – I

CARD/D/10/05/1

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks

Write short notes on:

1	Lipoprotein transport system and role of HDL in CAD.	5+5
2	Describe diagrammatically fetal circulation and changes at birth.	5+5
3	Applied anatomy for cardiac electrophysiology.	10
4	Enumerate congenital anomalies of coronary circulation and describe clinical presentation and management of ALCAPA in detail.	3+4+3
5	Coronary blood flow and its autoregulation.	5+5
6	Genetics of long QT syndrome.	10
7	Autonomic markers of ventricular arrhythmias / sudden cardiac death.	10
8	Myocardial hybernation: definition, etiopathogenesis, diagnosis and management.	2+3+3+2
9	Epidemiology of cardiovascular diseases in diabetes mellitus.	10
10	Embryology of conotruncal anomalies.	10

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CARDIOLOGY

PAPER – II

CARD/D/10/05/2

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks

Write short notes on:

1	Define low gradient low output aortic stenosis. Write in brief its evaluation and therapeutic planning.	3+3+4
2	Natural history of moderate and severe non-rheumatic mitral regurgitation and therapeutic planning.	5+5
3	Role of cardiac biomarkers in emergency room.	10
4	Pulmonary hypertensive crisis.	10
5	Dornedarone.	10
6	Epidemiological trends in coronary artery disease in India.	10
7	Tachycardiomyopathy: Definition, pathophysiology and management.	3+4+3
8	Non surgical treatment of abdominal aortic aneurysm	10
9	Diagnosis and management of peri-operative myocardial infarction.	10
10	Fontan's surgery: pre-requisites, indications and complications	3+4+3

CARDIOLOGY

PAPER – III

Time : 3 hours
Max. Marks : 100

CARD/D/10/05/3

Attempt all questions in order.
Each question carries 10 marks

Write short notes on:

1	How will you calculate aortic valve area in cardiac Cath.Lab?	10
2	Current utility of three-dimensional echocardiography.	10
3	Role of coronary intravascular ultrasound imaging in clinical practice.	10
4	Role of transesophageal echocardiography interventions in surgery and percutaneous cardiovascular interventions.	5+5
5	What is Tissue Doppler Imaging? Write in brief about its applications and limitations?	4+3+3
6	Differential diagnosis of chronic constrictive pericarditis from restrictive cardiomyopathy.	10 ~~2+4+4~~
7	What are the hazards of radiation? How to minimize radiation exposure during angiography?	4+6
8	Pharmacological stress testing: its principle and procedure.	4+6
9	Calculation of intra-cardiac shunts in acyanotic congenital heart disease.	10
10	Vulnerable plaque and describe various methods of its imaging.	2+8