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FINAL EXAM JUNE 2014 NATIONAL BOARD OF EXAMINATIONS

CARDIOLOGY

PAPER - I

CARD/J/14/05/I

Time : 3 hours Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- · Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	What are genetic causes of cardiomyopathy? Describe gene mutations causing hypertrophic, metabolic and dilated cardiomyopathy.	4+(2+2+2)
2.	a) Pressure gradient measurements during cardiac catheterization.b) How to calculate stenotic valve area in cath lab?	5+5
3.	Physiologic and pharmacologic maneuvers in cath lab.	5+5
4.	Congenital anomalies of coronary arteries and their clinical implications.	5+5
5.	What is quantitative coronary angiography? What are the pitfalls of coronary angiography?	5+5
6.	Cytoskeletal proteins in the myocardium and their role in heart failure.	5+5
7.	 a) Microanatomy of contractile cells and proteins. b) Calcium iron fluxes in cardiac contraction and relaxation cycle. 	5+5
8.	Neurohormonal alterations in renal functions and peripheral vasculature in CHF.	5+5
9.	Devices for monitoring and managing heart failure.	5+5
10.	Describe high risk vulnerable plague. What are the modalities to treat it?	5+5