CARDIOLOGY PAPER-I

TIME: 3 HOURS CARD/J/20/05/I

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.	a) Sample size determination.b) Pitfalls of meta-analysis.	5+5
2.	a) Embryological development of Left Ventricular Outflow Tract.b) Embryogenesis of Inter-Atrial Septum.	5+5
3.	a) Genesis of U wave & its clinical implications.b) Heart rate variability.	5+5
4.	a) Principles of iFR & FFR.b) Genetic basis of Long QT Syndrome.	5+5
5.	a) Biomarkers in Acute Coronary Syndrome.b) Cardiac bio-markers for cardiac fibrosis.	5+5
6.	a) Anatomy & functions of various components of Mitral Valve Apparatus.b) Anatomy of pericardium and its nerve and blood supply.	e 5+5
7.	a) Odds Ratio.b) Kaplan Meier Estimates.	5+5
8.	a) Embryogenesis of Ascending aorta, Aortic arch and its branches.b) Congenital anomalies due to faulty embryogenesis of Ascending aorta, Aortic arch and its branches.	5+5 of
9.	What is Neo-atherosclerosis? How is it different from neo-intimal hyperplasia? How will you diagnose and manage neo atherosclerosis?	
10.	a) Briefly describe the coagulation pathway.b) Discuss the sites of actions of various anti-coagulants.	5 +5
