CARDIOLOGY

PAPER-I

Time: 3 hours CARD/J/19/05/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) Embryology of Conotruncal anomalies. 5+5
   b) Cardiac Cycle: Applied physiology.

2. a) Physiological murmurs & flow murmurs. 5+5
   b) Third and fourth heart sounds: Genesis & applied physiology.

3. a) Intention to Treat Analysis and Co-efficient of Correlation. 5+5
   b) Basic design of a Randomized Control Trial.

4. a) Pathological types of myocardial necrosis. 5+5
   b) Reperfusion arrhythmias.

5. a) Hemodynamic changes during normal vaginal delivery. 5+5
   b) Anemia in heart failure.

6. a) Haematological abnormalities in congenital heart disease. 5+5
   b) Hemodynamics in right ventricular myocardial infarction.

7. a) IVC anomalies and their applied physiology. 5+5
   b) Pathophysiology of Ebstein's anomaly.

8. a) Duct dependent lesions in congenital heart disease. 5+5
   b) Pathophysiology of pulmonary artery hypertension in left heart disease.

9. a) Interventions for altering intensity of cardiac murmurs: Applied physiology. 5+5
   b) Pathophysiology of a cyanotic spell.

10. a) Normal jugular venous pressure and waveforms: Clinical importance. 5+5
    b) Diagrammatic representation of normal arterial pulse and various abnormal pulses.

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