

CARDIOLOGY

PAPER-I

Time: 3 hours
Max. Marks:100

CARD/J/19/05/I

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