

CARDIOLOGY

PAPER-I

Time: 3 hours
Max. Marks:100

CARD/D/20/05/I

Important Instructions:

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *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. Embryology of interventricular septum and ventricular septal defects. 5+5
2. a) Natriuretic peptide system. 10
b) Role of BNP and NT Pro BNP in Cardiology.
3. a) Receiver Operating Characteristic (ROC) curve. 10
b) Number needed to treat (NNT).
4. Histopathological features of different types of myocarditis. 10
5. Etiological agents of infective endocarditis. 10
6. Gorlin's formula. 10
7. Coagulation cascade and newer oral anticoagulants. 5+5
8. Design of clinical trials. 10
9. Pathophysiology of Kawasaki's disease. 10
10. Genesis of different waves of Jugular Venous Pulse, clinical assessment and represent the wave forms diagrammatically along with electrical and mechanical activities of the heart (JVP wave forms, ECG and Ventricular pressure tracings). 10
