CARDIOTHORACIC SURGERY
PAPER – 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. a) Classification of Antiarrhythmic drugs  
b) Management of ventricular arrhythmias.  
   4+6

2. Anatomy of Tracheo-bronchial tree with special emphasis on:
   a) Carina  
b) Endoscopic anatomy  
c) Relations of left and right bronchus  
d) Difference between broncho-pulmonary segments of left 
   and right side  
   2+3+3+2

3. Myocardial preservation with special reference to:
   a) Temperature – warm versus cold cardioplegia  
b) Antegrade versus retrograde cardioplegia  
c) Crystalloid versus blood cardioplegia  
   3+4+3

4. Vulnerable plaque with special emphasis on:
   a) Pathology  
b) Chemical composition  
c) Identification  
   3+3+4

5. a) Embryology of development of aortic arches  
b) Vascular ring anomalies  
   5+5

6. Foetal circulation with special emphasis on:
   a) Normal anatomy  
b) Changes at birth  
c) Physiological consequences  
   4+3+3

7. a) Univariate versus multivariate analysis  
b) Mean Versus mode  
c) Z Score  
d) Relevance of ‘p’ value  
   3+3+2+2

P.T.O.
8. Antibiotics in cardiac surgery:  
   a) Perioperative prophylaxis  
   b) Infective endocarditis prophylaxis: when and how?  
   c) Early prosthetic valve endocarditis

9. Cardiopulmonary Bypass:  
   a) Deleterious effects  
   b) Role of WBC  
   c) Alphastat and pH stat strategy  
   d) Hypothermia

10. a) Assessment of pulmonary arterial pressure on Echo-cardiography:  
    b) Speckle tracking  
    c) Spontaneous Echo contrast  
    d) Myocardial viability tests

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