

**CARDIOTHORACIC SURGERY**

PAPER – I

CTH/J/16/04/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 4+6  
b) Management of ventricular arrhythmias.
  
2. Anatomy of Tracheo-bronchial tree with special emphasis on: 2+3+3+2  
a) Carina  
b) Endoscopic anatomy  
c) Relations of left and right bronchus  
d) Difference between broncho-pulmonary segments of left and right side
  
3. Myocardial preservation with special reference to: 3+4+3  
a) Temperature – warm versus cold cardioplegia  
b) Antegrade versus retrograde cardioplegia  
c) Crystalloid versus blood cardioplegia
  
4. Vulnerable plaque with special emphasis on: 3+3+4  
a) Pathology  
b) Chemical composition  
c) Identification
  
5. a) Embryology of development of aortic arches 5+5  
b) Vascular ring anomalies
  
6. Foetal circulation with special emphasis on: 4+3+3  
a) Normal anatomy  
b) Changes at birth  
c) Physiological consequences
  
7. a) Univariate versus multivariate analysis 3+3+2+2  
b) Mean Versus mode  
c) Z Score  
d) Relevance of 'p' value

**P.T.O.**

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8. Antibiotics in cardiac surgery: 3+4+3  
a) Perioperative prophylaxis  
b) Infective endocarditis prophylaxis: when and how?  
c) Early prosthetic valve endocarditis
9. Cardiopulmonary Bypass: 3+2+3+2  
a) Deleterious effects  
b) Role of WBC  
c) Alphastat and pH stat strategy  
d) Hypothermia
10. a) Assessment of pulmonary arterial pressure on Echo- 2+2+2+4  
cardiography:  
b) Speckle tracking  
c) Spontaneous Echo contrast  
d) Myocardial viability tests

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