

**CARDIOLOGY****PAPER – I**

Time : 3 hours  
Max. Marks : 100

CARD/D/17/05/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:

- a) Hemodynamic changes immediately after birth 3+4+3
  - b) Patent foramen ovale – anatomy, physiology and clinical implications.
  - c) Autosomal dominant disorders affecting the heart.
- a) Embryogenesis of cono truncus 4+3+3
  - b) Anatomy and classification of truncus arteriosus
  - c) Echo and hemodynamic features of D-TGA
- a) Etiopathogenesis of persistent PAH of new born 3+4+3
  - b) Pulmonary hypertension in shunt lesion-assessment for surgery.
  - c) Endothelin receptors antagonist
- a) Splitting of Second Heart Sound in health and disease 4+3+3
  - b) Valsalva Maneuver
  - c) Diastolic murmurs in congenital heart disease
- a) Blood pressure regulation and baroreceptors 4+3+3
  - b) Starling's Law of the heart
  - c) Cardiac Cycle
- a) Coronary auto regulation 4+3+3
  - b) Pitfalls in coronary angiography
  - c) Coronary dissection – etiology, classification and management
- a) Calcium ion movement in cardiac contraction and relaxation 4+3+3
  - b) Nitric oxide in health and disease.
  - c) Wall stress, preload and after load

**P.T.O.**

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8. a) Embryology and classification of single ventricle. 4+3+3  
b) Assessment of patients with single ventricle.  
c) Management of patients with single ventricle.
9. a) Lipid metabolism 4+3+3  
b) Classification of hyperlipidemia  
c) Vulnerable plaque.
10. a) Etiopathogenesis of rheumatic fever 4+3+3  
b) Revised Jones's criteria for diagnosis of rheumatic fever-2015.  
c) Prevention of rheumatic heart disease - primary and secondary.

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