

PAEDIATRIC CARDIOLOGY

PAPER-III

Time: 3 hours
Max. Marks:100

PED.CARD/D/19/83/III

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) Echocardiographic evaluation of right ventricular function. 5+5
b) Contrast Echocardiography.
2. a) Utility of 3D printing in congenital heart disease. 5+5
b) Design of different Ventricular Septal Defect closure devices.
3. Discuss the various cardiac surgeries performed by: 5+5
a) Right lateral thoracotomy.
b) Left lateral thoracotomy.
4. Discuss indications, benefits and demerits of: 5+5
a) Stenting of patent ductus arteriosus.
b) Aorto-pulmonary shunting procedures.
5. a) ARNI (Angiotensin receptor neprilysin inhibitors). 5+5
b) Importance of coronary artery evaluation before surgery for congenital heart disease.
6. a) Discuss role of coronary artery risk factor evaluation and control in 5+5
pediatric and adolescent age groups.
b) Epidemiology of rheumatic fever and rheumatic heart disease in India.
7. a) Discuss the mechanical circulatory support devices in pediatrics. 5+5
b) Discuss the indications and complications for their use.
8. Discuss the indications, evaluation and follow up protocol after cardiac 3+3+4
transplantation in children.
9. Discuss the role of magnetic resonance imaging in Pediatric Cardiology. 10
10. a) Percutaneous interventions in the Right Ventricular Outflow tract. 5+5
b) Percutaneous interventions in Mitral Valve Apparatus.
