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## PAEDIATRIC CARDIOLOGY PAPER-I

Time: 3 hours Max. Marks: 100

PED.CARD/D/19/83/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:

1.	Discuss embryology of truncus arteriosus and describe its various subtypes.	5+5
2.	Describe types of atrial isomerism and associated lesions with each.	10
3.	What is base excess? Describe its importance in reference to acid base imbalance.	4+6
4.	Discuss straddling and overriding of atrioventricular valves.	10
5.	<ul><li>a) How is radiation dose quantified in the cardiac cath lab?</li><li>b) Discuss effects of radiation on human body?</li><li>c) Strategies to limit radiation to the operator and patient in cath lab?</li></ul>	2+3+5
6.	Endothelin receptor antagonists used in pulmonary hypertension: a) Discuss the mechanism of action and evidence of clinical efficacy. b) Enumerate the doses and side effects.	6+4
7.	Describe the anatomy of mitral valve in health and disease.	5+5
8.	<ul><li>a) Pressure volume loop analysis of contractile function.</li><li>b) Cardiac tumours.</li></ul>	5+5
9.	<ul><li>a) Null hypothesis.</li><li>b) Numbers to treat (NNT).</li></ul>	5+5
10.	Discuss role of genetics in:  a) Congenital cardiac septal defects.  b) Pediatric cardiac arrhythmias.	5+5

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