

QP Code: 101111

Reg. No.:.....

**PG Degree Supplementary Examinations in Paediatrics (MD)
April 2026**

Paper I – Basic Science Applied to Paediatrics

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. Describe the development of the heart. Write a note on fetal, transitional and neonatal circulation

Short Essays: (8x10=80)

2. Discuss calcium homeostasis. Add a note on causes of hypocalcemia
3. Intravenous Immunoglobulins
4. Biomedical waste management
5. Renal function tests
6. Discuss Hepatitis B serology and its course in acute Hepatitis B infection
7. Tuberculin skin tests
8. Mitochondrial inheritance. Add a note on chromosomal microarray
9. Study designs in biomedical research
