

QP Code: 101111

Reg. No.:.....

**PG Degree Supplementary Examinations in Paediatrics (MD) –  
November 2017**

**Paper I – Basic Science Applied to Paediatrics**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss the factors affecting potassium homeostasis. Discuss the diagnostic approach and treatment of hypokalemia in a child. (5+15)

**Short essays:**

**(8x10=80)**

2. Neurological control of urinary bladder function in health and disease
3. Changes in circulation during transition from foetus to newborn
4. Acid-base buffer mechanisms in the kidneys
5. Alveolar-arterial oxygen difference
6. Biosynthesis of adrenal steroids
7. Informed consent and assent
8. Randomised control trials
9. Antibiotic stewardship

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