

QP Code: 101111

Reg. No.:.....

**PG Degree Supplementary Examinations in Paediatrics (MD)  
December 2020**

**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. Discuss the absorption, regulation and metabolism of iron. Outline the causes of Iron Refractory Iron Deficiency Anaemia- IRIDA (10+10)

**Short essays:**

**(8x10=80)**

2. Discuss glucose homeostasis and the pathophysiology of diabetic ketoacidosis
3. Draw CSF circulation and discuss communicating and obstructive hydrocephalus
4. Discuss the development of neural tube and enumerate the related anomalies
5. Define polyuria in children and write the causes and diagnostic algorithm
6. Discuss antibiotics in relation to mechanism of action and mode of resistance
7. Discuss the various blood components with indications for component transfusion
8. Discuss types of acute kidney injury and discuss the related etiopathological factors
9. Draw and discuss flow volume loop in pulmonary function test

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