

QP Code: 101111

Reg. No.:.....

**PG Degree Supplementary Examinations in Paediatrics (MD)  
October 2019**

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

**Time: 3 hrs**

**Max marks:100**

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

**Essay: (20)**

1. Discuss the synthesis and metabolism of vitamin D. Outline the diagnostic approach to rickets in a one-year old infant. Discuss the treatment of nutritional rickets. (10+5+5)

**Short essays: (8x10=80)**

2. Draw and enumerate the blood supply to the brain and the vascular territories. Outline the effects of stroke involving the internal carotid artery
3. Discuss the development of gastro intestinal tract and outline the related congenital anomalies
4. Define hypertension and hypertensive emergencies in a child. Discuss the diagnostic algorithm in a child with hypertension.
5. Draw brachial plexus and discuss the injuries related to shoulder dystocia
6. Define overweight and obesity in children. Discuss the neuro-hormonal mechanisms of hunger and satiety
7. Discuss the complement pathways and related disorders
8. Discuss the modalities for antigen and antibody detection in body fluids and the diagnostic applications in various diseases
9. Discuss various imaging techniques in renal disorders

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