

**QP Code: 101111**

**Reg. No.:.....**

**PG Degree Supplementary Examinations in Paediatrics (MD)  
October 2018**

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

**Time: 3 hrs**

**Max marks:100**

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

**Essay: (20)**

1. Discuss bilirubin metabolism and outline the diagnostic approach to a 2-week old baby with persisting neonatal jaundice.

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

2. Outline the anatomy of the Circle of Willis and describe the clinical implications of the same.
3. Discuss pH and base excess. Discuss briefly compensatory mechanisms during metabolic acidosis.
4. Discuss the complement pathway.
5. Discuss the developmental stages of lung.
6. Discuss the pathogenesis of Disseminated Intravascular Coagulation and relate it to laboratory abnormalities observed in this entity.
7. Write briefly about glucose metabolism and a note on glycogen storage disorders.
8. CSF circulation and its clinical importance.
9. Describe the pathogenesis of septic shock

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