

# Rajiv Gandhi University of Health Sciences, Karnataka

## D.M. Degree Examination – 11-Dec-2019

**Time: Three Hours****Max. Marks: 100 Marks****PAEDIATRIC NEPHROLOGY - PAPER – I****QP Code: 9166**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary. Answer all questions.

**LONG ESSAY (These questions carry 10 marks each)****10 x 10 = 100 Marks**

1. Discuss the molecular events in ureteric bud induction and outgrowth and renal branching morphogenesis.
2. Discuss the role of kidney in maintain potassium homeostasis.
3. Discuss the various methods for genetic testing and indications for genetic testing in children with renal disease with examples.
4. How do animal models help in understanding pathobiology of nephrotic syndrome?
5. Discuss the indications, procedure and interpretation of water deprivation test.
6. Discuss the physiology and development of normal micturition.
7. Discuss the mechanisms of renal drug excretion and clearance.
8. List out the entities under collagen type 4 and 3 glomerulopathy and discuss genetics of Alport's syndrome.
9. Discuss various methods of randomization of clinical trials with examples of its use.
10. Discuss the nomenclature and methods of HLA typing in renal transplantation.

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