

## Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – APRIL - 2015

Time: 3 Hours

Max. Marks: 40 Marks

### Physiology

**Q.P. Code: 1250**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

**(Note: Both QP Codes 1249 and 1250 are to be answered within total duration of 3 hours)**

#### LONG ESSAYS (Answer any One)

**1 x 10 = 10 Marks**

1. Describe the innervation of the Urinary bladder and explain the micturition reflex.
2. Explain the counter current mechanism.

#### SHORT ESSAYS (Answer any Three)

**3 x 5 = 15 Marks**

3. Describe the mode of Glucose reabsorption in the proximal convoluted tubule of the nephron and TmG.
4. Renal dialysis
5. Define GFR. What are the factors affecting it?
6. Renal regulation of  $H^+$  ion

#### SHORT ANSWERS (Answer any Five)

**5 x 3 = 15 Marks**

7. Sodium reabsorption in proximal convoluted tubules
8. Laplace's Law
9. Automatic bladder
10. Juxta Glomerular Apparatus
11. Inulin clearance
12. Structure of Juxta Glomerular apparatus

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