

# Rajiv Gandhi University of Health Sciences, Karnataka

## II Year B.Sc. Renal Dialysis Technology Degree Examination – 06-Jun-2024

Time: Three Hours

Max. Marks: 50 Marks

### APPLIED PHYSIOLOGY RELATED TO DIALYSIS TECHNOLOGY (RS-3)

#### Q.P. CODE: 3402

Your answers should be specific to the questions asked  
Draw neat labeled diagrams wherever necessary

**(Note: Both QP Codes 3302 and 3402 are to be answered within total duration of 3 hours)**

#### LONG ESSAYS (Answer any One)

**1 x 10 = 10 Marks**

1. Define glomerular filtration rate. Give the normal value. Explain the factors effecting GFR. Add a note on determination of GFR
2. Define blood coagulation. Describe the mechanism of blood coagulation. Add a note on causes and complications of intra vascular blood clotting

#### SHORT ESSAYS (Answer any Five)

**5 x 5 = 25 Marks**

3. Describe the features of renal circulation
4. Explain the mechanism of reabsorption of glucose in the renal tubule
5. What is acidosis? Mention the types of acidosis and explain their causes
6. Clinical importance of creatinine clearance
7. Reabsorption of water from renal tubule
8. Endocrine functions of kidney

#### SHORT ANSWER (Answer any Five)

**5 x 3 = 15 Marks**

9. Twenty four hours of urinary indices of electrolytes – calcium and magnesium
10. Clinical significance of bleeding time and clotting time
11. Neurogenic bladder
12. Write the causes and symptoms of Hypernatremia and Hyperkalemia
13. Give the serum concentration of the following: a) Urea b) Phosphorous c) Calcium
14. Define renal threshold for glucose with its normal value

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