

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – 13-May-2025

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 GFR. Give its normal value. Explain the factors that regulate GFR
2. Define counter – current mechanism. Discuss its role in concentrating the urine

SHORT ESSAYS (Answer any Five)

5 x 5 = 25 Marks

3. Describe the structure of Juxtaglomerular apparatus and explain its functions
4. Outline the role of ADH on renal tubules. Add a note on diabetes insipidus
5. Briefly explain the role of kidney in calcium metabolism
6. Discuss renal function tests
7. What is Renin angiotensin system? Explain its role in renal function
8. Describe auto regulation of renal blood flow

SHORT ANSWER (Answer any Five)

5 x 3 = 15 Marks

9. Write notes on bleeding time and clotting time
10. Inulin clearance
11. List the coagulation factors
12. Give the normal values of serum creatinine, urea and sodium
13. Hypokalemia
14. Renal Splay
