

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Renal Dialysis Technology Degree Examination – 02-Dec-2023

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. What are the standard renal function tests? How are they interpreted?
2. Describe the mechanism by which water is reabsorbed from the collecting tubules.

SHORT ESSAYS (Answer any Five)

5 x 5 = 25 Marks

3. Draw labelled diagram of juxtaglomerular apparatus. List their functions.
4. Explain the hormones secreted by kidney.
5. Define plasma clearance. Add a note on urea clearance test.
6. What is the counter current mechanism?
7. What are the special features of renal circulation? Write a note on autoregulation of renal blood flow.
8. Normal serum sodium level in body? Explain how sodium concentration is regulated by Kidney.

SHORT ANSWER (Answer any FIVE)

5 x 3 = 15 Marks

9. Bleeding time.
10. List three major buffers in blood.
11. Draw diagram of Nephron;.
12. GFR.
13. Hyperkalemia.
14. Normal values of urea, creatinine and uric acid.
