

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Renal Dialysis Technology Degree Examination – 28-Nov-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. List the various renal function tests. Explain plasma clearance test.
2. Draw a Nephron. Name the process in urine formation. Explain re absorption of glucose and sodium in the renal tubule.

SHORT ESSAYS (Answer any Five)

5 x 5 = 25 Marks

3. Define glomerular filtration rate. Give the normal values. Explain the factors effecting it.
4. Re absorption of water in the renal tubule and factors effecting it.
5. Describe the role of kidneys in the regulation of blood pH.
6. Auto regulation of renal blood flow.
7. Explain the intrinsic mechanism of blood coagulation.
8. Role of kidneys in electrolyte balance.

SHORT ANSWER (Answer any FIVE)

5 x 3 = 15 Marks

9. List the functions of Proximal Conveluted Tubule of nephron
10. What is the normal renal blood flow per minute? What will happen to renal blood flow during pregnancy?
11. Name the hormones acting on the kidneys. Mention the actions of any one.
12. Define bleeding time. What is its significance? Name a condition in which bleeding time prolongs.
13. What is hypokalemia and hyponatremia? Mention the causes.
14. What is the normal 24 hours urinary output of urea and creatinine?
