

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Renal Dialysis Technology Degree Examination – 20-May-2025

Time: Three Hours

Max. Marks: 100 Marks

BASICS OF RENAL DIALYSIS TECHNOLOGY (RS-3)

Q.P. CODE: 3304

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

LONG ESSAYS (Question No.2 Choice)

2 x 10 = 20 Marks

1. Explain different types of peritoneal access devices used for peritoneal dialysis patients and their complications
 2. With the help of neat labelled diagram classify artificial kidney
- OR**
- Explain different steps of manual reprocessing

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. Define diffusion in peritoneal dialysis and explain factors affecting it
 4. Explain ultrafiltration profile in hemodialysis
 5. Explain the procedure of heparin free dialysis
- OR**
- Define hypotension and explain its management during dialysis
6. Discuss advantages and disadvantages of manual dialyzer reprocessing
 7. Which filter in water treatment system removes Ca and Mg ions? Explain
 8. Explain different Osmotic agents used in peritoneal dialysis
 9. What are the precautions taken to prevent hepatitis B virus in dialysis patients?
 10. Explain the structure of tunneled cuffed catheter
- OR**
- Discuss indications for hemodialysis
11. Explain the composition of bicarbonate – based hemodialysis solution
 12. Write a note on cleaning and disinfection of hemodialysis machine

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. Write a short note on antidote for heparin
 14. List three causes of anaemia in hemodialysis patients
 15. List three functions of dialysate
- OR**
- Explain the procedure for Allen's test
16. What is counter current and co current flow of dialysate?
 17. Draw a neat labelled diagram of three pore model in peritoneal dialysis
 18. List any three urgent indications of dialysis
 19. List three signs of clotting in extracorporeal blood circuit
 20. Define dialyzer reuse and reprocessing
- OR**
- Discuss AN – 69 membrane
21. Define blood pressure. Write its normal range
 22. Define ultrafiltration co-efficient
