

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Renal Dialysis Technology Degree Examination – 11-Nov-
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 HD machine preparation and its setting.
2. Indications of dialysis and explain in brief regarding various types of dialysis.

OR

Explain the pre-purification components of Water treatment plant.

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. Differentiate between temporary and permanent vascular access.
 4. Regular heparinization.
 5. What are the types, advantages and disadvantages of PD?
- OR**
- Crash cart management.
6. What are the causes for alarms during hemodialysis? How can you manage it?
 7. Importance of diffusion and ultrafiltration in HD.
 8. Dialyzer disequilibrium syndrome.
 9. Prevention of vascular access infection.
 10. Post-HD assessment.

OR

- What is dialysate? Write its composition.
11. Monitoring of acid-bicarbonate mixing system.
 12. Pre-HD assessment.

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. PD apparatus.
 14. Explain Kuf.
 15. Mention any three Chemicals used during reprocessing.
- OR**
- Define air embolism and mention its cause.
16. Mention any three complications of Central venous catheter.
 17. AVF cannulation techniques.
 18. What is blood pressure? Name the equipment used to measure it. Write the unit of BP.
 19. Define Reverse Osmosis and mention its importance in water treatment plant.
 20. Types of dialyzers.
- OR**
- Mention different kinds of personal protective equipment.
21. What is the appropriate conductivity range of dialysate? What causes increased conductivity?
 22. Monitoring dialyzer reprocessor.
