

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Renal Dialysis Technology Degree Examination – 27-May-2025

Time: Three Hours

Max. Marks: 100 Marks

Applied Dialysis Technology – Paper -II (RS-3)

Q.P. CODE: 3306

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 common complications of hemodialysis and its management.
2. Define plasmapheresis. Explain centrifugal plasma separation technique and associated complications.

OR

Discuss nutritional assessment and dietary recommendations in renal failure patients.

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. Discuss pre-treatment components of water treatment plant.
4. Define online HDF. List apparatus and explain advantages of online hemodiafiltration.
5. Describe vascular access options for paediatric hemodialysis. Explain best vascular access for paediatric patients.

OR

Discuss dialysis in patients with congestive heart failure.

6. Explain MARS.
7. Discuss iron therapy for the management of renal anaemia.
8. Define haemolysis. How do you identify haemolysis during HD? Explain management of haemolysis during HD.
9. Describe nocturnal hemodialysis.
10. Discuss dialysis in failed transplant.

OR

Explain SCUF and CVVHF.

11. What is dialysis disequilibrium and its prevention.
12. Write a note on renal transplant (Broad outline).

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. List three causes of malnutrition in hemodialysis patients.
14. Explain isolated UF.
15. What do you mean by restless leg syndrome?

OR

Define telemedicine. List its two uses in dialysis practice.

16. Write causes of seizures in dialysis patients.
17. List three drug removed by hemoperfusion.
18. Explain ultrafiltration in CAPD patient.
19. List three effects of aluminium toxicity.
20. List two reasons for hypotension during plasmapheresis and its management.

OR

List steps in management of hyperkalemia.

21. Define osteitis fibrosa and osteomalacia.
22. What is sodium modeling in hemodialysis?