

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Renal Dialysis Technology Degree Examination – 19-May-2026

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. Describe different anticoagulant techniques with associate complications in HD patients
2. Explain infection control measures practiced in the dialysis unit and follow the standard precaution practices

OR

Explain in brief physiology of peritoneal transport and factors affecting it

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. Classify dialyzer based on membrane performance
4. Explain pressure leak test
5. Discuss type A dialyzer reaction during hemodialysis

OR

Discuss hollow fibre dialyzer

6. Explain sodium profile in hemodialysis
7. Mention various parts of water treatment plant. What is AAMI criteria of water used for hemodialysis
8. With the help of neat labelled diagram classify chronic PD catheters
9. Explain different Osmotic agents used in Peritoneal dialysis patients
10. Describe infection prevention measures for hemodialysis catheter

OR

Write a note on blood spill management in hemodialysis unit

11. Discuss types of AVF and write different construction sites for creating fistula
12. Discuss indications for peritoneal dialysis

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. List three advantages of low molecular weight heparin
14. List three causes for low venous pressure
15. Explain the structure of arterio venous shunt

OR

What are the parameters monitored during hemodialysis?

16. Explain biomedical waste management in hemodialysis unit
17. What is counter current and co current flow of dialysate?
18. Discuss pre hemodialysis assessment
19. Classify renal replacement therapy
20. List three methods of preventing vascular access infection

OR

What do you mean by universal precautions?

21. How will you manage needle stick injury?
22. List three complications of dextrose peritoneal dialysate
