

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. Renal Dialysis Technology Degree Examination – 22-Nov-2024**

**Time: Three Hours**

**Max. Marks: 100 Marks**

**Applied Dialysis Technology – Paper -I (RS-3)**

**Q.P. CODE: 3305**

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. Discuss about various types of permanent vascular access used in hemodialysis.
2. Describe various types of anticoagulation protocols in hemodialysis unit.

**OR**

Explain anatomy and physiology of peritoneal dialysis. Explain peritoneal equilibration test.

**SHORT ESSAYS (Question No.5 & 10 choice)**

**10 x 5 = 50 Marks**

3. Define UFF in peritoneal dialysis patients and explain its management.
4. Define dialysis adequacy. Explain Kt/v & URR.
5. Discuss withdrawal criteria of dialysis.

**OR**

Discuss diffusion in dialysis.

6. Draw a neat labelled diagram of extracorporeal blood circuit of hemodialysis apparatus and describe the same.
7. Discuss Hollow Fibre Dialyzer.
8. Explain different osmotic agents used in peritoneal dialysis patients.
9. Discuss management of prevention of peritonitis in peritoneal dialysis patients.
10. Discuss history of dialysis.

**OR**

Indications of clotting in extracorporeal circuit.

11. Write a note on Type a dialyzer reactions
12. Write briefly about long term complication of hemodialysis.

**SHORT ANSWER (Question No. 15 & 20 choice)**

**10 x 3 = 30 Marks**

13. List any six advantages of peritoneal dialysis over hemodialysis.
14. What are the normal value of serum creatinine, serum potassium and blood urea?
15. Define osmosis.

**OR**

Explain the procedure for Allen test.

16. What is counter current and co-current flow of dialysate.
17. Name three drugs used to treat catheter related blood stream infection.
18. List any three urgent indications of dialysis.
19. Steps of AV fistula cannulation.
20. Explain restless leg syndrome.

**OR**

Define dry weight.

21. Explain biocompatibility.
22. Define ultrafiltration coefficient.

Rajiv Gandhi University of Health Sciences, Karnataka  
\*\*\*\*\*