

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. Renal Dialysis Technology Degree Examination – 22-May-2025**

**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. Define peritonitis and explain diagnosis, management and prevention of the same
2. Enumerate acute complications of hemodialysis. What is intradialytic hypotension? How to prevent and manage intradialytic hypotension?

**OR**

Discuss principles of peritoneal dialysis.

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

**10 x 5 = 50 Marks**

3. List various renal replacement therapies available for renal failure patients and write acute dialysis prescription.
4. Define dialysis withdrawal and explain procedure for dialysis withdrawal.
5. Describe in brief types of dialyzer based on membrane material, design and flux.

**OR**

Explain hydraulic circuit of hemodialysis machine.

6. Write a note on hemodialysis machine disinfection.
7. Discuss PD catheters with the help of neat labelled diagram.
8. Explain two types of hemodialysate.
9. Discuss heparin free dialysis.
10. Discuss manual reprocessing steps.

**OR**

Discuss investigations done in a patient on hemodialysis?

11. Explain infection control practices in hemodialysis unit.
12. Define AV fistula. Explain physical examination of AV fistula.

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

**10 x 3 = 30 Marks**

13. Explain rule of six of AV fistula.
14. What is KoA of a dialyzer?
15. What is "Break in period" in CAPD?

**OR**

Define Kt/v. Write Kt/v for hemodialysis and peritoneal dialysis.

16. Write any three advantages of dialyzer reprocessing.
17. List three types of cannulation technique and which is the best.
18. Define dialysis disequilibrium syndrome and mention any one cause for it.
19. Define dry weight.
20. Discuss high and low transporters in peritoneal dialysis.

**OR**

List any three indications for peritoneal dialysis over hemodialysis.

21. List any three causes for outflow failure in peritoneal dialysis.
22. Mention different types of peritoneal dialysis.

Rajiv Gandhi University of Health Sciences, Karnataka

\*\*\*\*

AIATHS LIBRARY