

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**II Year B.Sc. Renal Dialysis Technology Degree Examination – 12-Jun-2024**

**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 the anticoagulation techniques used in hemodialysis patients.
2. With the help of neat labelled diagram explain water treatment plant.

**OR**

Describe briefly about various equipments used in dialysis and its monitoring.

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

**10 x 5 = 50 Marks**

3. Causes of cramps during dialysis, explain the management and prevention.
4. Explain dialysis disequilibrium syndrome, causes, management and prevention.
5. List different performance tests done in dialyzer reprocessing. Justify its importance. Explain fibre bundle volume.

**OR**

Explain pre dialysis and post dialysis assessment.

6. Define intradialytic hypotension. Explain the causes, management and prevention.
7. What is conductivity? Explain the composition of hemodialysis solution and mixing ratio.
8. Elaborate type A - dialyser reactions (anaphylactic).
9. Define osmosis and diffusion. Explain factors affecting osmosis and diffusion.
10. Describe how to prevent the spread of blood born viruses in dialysis unit.

**OR**

Explain BCLS (Basic Cardiac Life Support) and causes of cardiac arrest during Hemodialysis.

11. Explain Allen's test and write its importance.
12. Explain the physiology of peritoneal dialysis.

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

**10 x 3 = 30 Marks**

13. Define TMP.
14. Write the antidote for heparin. Write its dose.
15. Write rule of 6's in arterio venous fistula.

**OR**

Write any three immediate complications of temporary catheter insertion.

16. Write the management of needle stick injury.
17. Note on biomedical waste management protocol in hemodialysis unit.
18. List any three indications for peritoneal dialysis.
19. Write the modalities of renal replacement therapy.
20. Which is the best vascular access for haemodialysis and why?

**OR**

Causes and management of itching in dialysis patients.

21. Causes of high venous pressure during hemodialysis.
22. List the clinical complications of dialyzer reprocessing.

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