

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Renal Dialysis Technology Degree Examination – 04-Dec-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. Explain water treatment system used in hemodialysis. What are the quality monitoring for dialysis water.
2. Explain in detail about dialyser reprocessing techniques and clinical concerns in dialyser reprocessing.

OR

Explain in briefly about physiology and factors affection of peritoneal transport.

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. Explain about the hemodialysis catheter, types and design with the help of diagram.
4. Write a note on different osmotic agents used in peritoneal dialysis solution.
5. Explain hypotension during hemodialysis, causes management and prevention.

OR

Define dialysis disequilibrium syndrome. Explain its causes, management and prevention.

6. With the help of neat labelled diagram, explain different types of dialyzers and semipermeable membranes used in dialysis.
7. Explain different anticoagulation techniques in hemodialysis.
8. Explain the composition of dialysis solution and normal value.
9. Describe the indications of haemodialysis.
10. Explain pre-operative assessment of an arterio venous fistula.

OR

Explain infection control practices in dialysis unit.

11. Write the causes, manifestations and management of dialyzer reactions.
12. Write a note on equipments used in dialysis unit and its monitoring.

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. Write the unit of conductivity.
14. Differentiate arterio venous fistula from arterio venous graft.
15. Write about pre-hemodialysis assessment for patients.

OR

Causes of hemolysis in patients during hemodialysis.

16. List three precautions to prevent needle stick injury.
17. Explain the 'Rule of Six'.
18. Define TMP.
19. Causes of high venous pressure during dialysis.
20. How to prevent cramps during hemodialysis.

OR

List any three low molecular weight heparin used during hemodialysis.

21. List any three side effects of heparin.
22. List the principles of dialysis.
