

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. Renal Dialysis Technology Degree Examination – 06-May-2026

Time: Three Hours

Max. Marks: 100

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. Explain the symptoms and signs, causative organisms, complications, investigations and treatment of peritonitis in a patient undergoing peritoneal dialysis. Add a note on cyclers in peritoneal dialysis
2. Mention different types of vascular access in hemodialysis. List the advantages, disadvantages and complications of each of them

OR

Describe various steps in disinfection of hemodialysis machine, is there any additional disinfectant measures taken for dialysis machines used for dialyzing HIV/Hepatitis B, C positive patients?

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. Explain regional citrate anticoagulation – principle, procedure, monitoring and its complications
4. Discuss urea reduction ratio and Kt/V in hemodialysis with target values
5. Explain about ultrafiltration failure in peritoneal dialysis

OR

Explain principles of peritoneal dialysis and three pore model

6. Discuss causes, management and prevention of air embolism in hemodialysis patients
7. Chronic Hemodialysis withdrawal criteria
8. Discuss complications of heparin and its antidote
9. What do you understand by biocompatibility of dialyser membrane? Explain the advantages
10. Peritoneal equilibration test

OR

How would you alter the CAPD prescription of a patient who is a fast transporter?

11. Explain dialyser reaction-types, diagnosis and management; what is first use syndrome?
12. How do you manage the alarms in HD machine?

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. List advantages of peritoneal dialysis over hemodialysis
14. What do you mean by tight heparin in hemodialysis?
15. List causes of high venous pressure during hemodialysis

OR

List delayed complications of AV fistula

16. What is encapsulating peritoneal sclerosis?
17. What is balancing chamber in hemodialysis?
18. How do you manage blood spills in hemodialysis units?
19. What is co-current hemodialysis? When is it indicated?
20. Explain steal syndrome

OR

Define ultrafiltration coefficient

21. When do you suspect dialyser leak?
22. What is renalin and its uses?

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