

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Renal Dialysis Technology Degree Examination – 03-Jun-2024

Time: Three Hours

Max. Marks: 100 Marks

APPLIED RENAL DIALYSIS TECHNOLOGY – II (RS2)

Q.P. CODE: 2919

Your answer should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. What is continuous renal replacement therapy (CRRT)? What are the types of CRRT? What are the indications of CRRT?
2. List various extra-corporeal treatment available for management of poisoning. Explain hemoperfusion.
3. What is plasmapheresis? Elaborate on the procedure and indications for plasmapheresis.

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Precautions for dialysis of HBsAg positive patients.
5. Explain hemodiafiltration.
6. Sustained low efficiency dialysis (SLED) indications and prescriptions.
7. Explain Molecular Adsorbent Recirculating System (MARS) with diagram.
8. Causes and management of anemia during dialysis.
9. Explain the advantages of technical consideration of Nocturnal hemodialysis.
10. Explain different modalities of peritoneal dialysis.
11. Psychosocial issues in dialysis patient.
12. Management and prevention of Aluminium toxicity in dialysis patients.
13. Discuss about Phosphate binders used in dialysis patients.
14. Dialysis a pregnant patient with renal failure.
15. Difference between direct feed and indirect feed in RO water distribution system. How to disinfect water distribution system.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Adynamic bone disease.
17. Advantages of telemedicine in dialysis practices.
18. What is the function of carbon filter in water treatment plant?
19. Precautions while using Deionizer in water treatment plant.
20. How to calculate blood volume in pediatric patients.
21. Allowed range of Chlorine and Chloramine in water for hemodialysis as per AAMI standards.
22. Name some chemical substances which are used for disinfection during dialyser reuse?
23. Disadvantages of dialyzer reuse.
24. Differences between low flux and high flux dialyzer.
25. Mention three replacement fluids used during plasmapheresis.
26. Write three examples of dialyser used for infants and children and its priming volume.
27. Maximum allowed limit of endotoxin and bacterial contaminations in ultrapure dialysis solution as per AAMI.
