

# Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Renal Dialysis Technology Degree Examination – 30-May-2024

**Time: Three Hours**

**Max. Marks: 100 Marks**

## **APPLIED RENAL DIALYSIS TECHNOLOGY – I (RS2)**

**Q.P. CODE: 2918**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

### **LONG ESSAYS (Answer any Two)**

**2 x 10 = 20 Marks**

1. Discuss about various types of vascular access used in dialysis patients.
2. Explain the causes, peritonitis diagnosis, management and prevention of the same.
3. Enumerate acute complications of hemodialysis. What is intradialytic hypotension? Discuss about causes management and prevention of intradialytic hypotension.

### **SHORT ESSAYS (Answer any Ten)**

**10 x 5 = 50 Marks**

4. Compare hemodialysis and peritoneal dialysis.
5. Define dialysis adequacy. Explain Kt/V & URR.
6. Discuss withdrawal criteria in acute dialysis setting.
7. Discuss the factors affecting diffusion in hemodialysis.
8. Explain mechanical and metabolic complications of peritoneal dialysis.
9. With a neat labelled diagram, explain Hollow Fibre Dialyzer and blood lines used for hemodialysis.
10. Explain different Osmotic agents used in peritoneal dialysis solutions and its advantages and disadvantages.
11. Explain indications for dialysis.
12. Discuss history of dialysis.
13. Describe anticoagulation technique used during hemodialysis.
14. Explain peritoneal equilibration test (PET).
15. Write briefly about long term complications of hemodialysis.

### **SHORT ANSWERS (Answer any Ten)**

**10 x 3 = 30 Marks**

16. Define clearance in hemodialysis.
17. What are the normal values of serum creatinine, serum potassium and Blood Urea Nitrogen (BUN)?
18. Define osmosis.
19. Explain the procedure for Allen test.
20. Importance of counter-current and co-current flow configuration during dialysis.
21. Name three drugs used to treat catheter related blood stream infection.
22. What is reflection coefficient in peritoneal dialysis?
23. List steps of AV fistula cannulation.
24. What are the immediate complications of dialysis catheter insertion?
25. List three symptoms of steal syndrome.
26. Explain biocompatibility.
27. Define ultrafiltration coefficient.

\*\*\*\*\*