

# Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Renal Dialysis Technology Degree Examination – 12-Dec-2022

**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. Describe hemodialysis apparatus in detail with diagram
2. Describe in brief about anatomy and physiology of peritoneal dialysis
3. Explain complications of Venous access. Explain management and prevention of catheter infections.

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

**10 x 5 = 50 Marks**

4. What is co-current flow? When it is indicated?
5. Explain various types of PD catheters with diagram
6. Adequacy of PD
7. Complications of Arterio-Venous access.
8. Explain in detail about Peritoneal Equilibration Test
9. Discuss the various acute complications of hemodialysis with their management
10. Explain the compositions of dialysis solutions used in haemodialysis and peritoneal dialysis.
11. Explain the types of Ultrafiltration failure in peritoneal dialysis
12. Explain key factors that affect the solute clearance of a haemodialysis
13. What are the routine blood tests done in dialysis patients? Significance and target value.
14. Precautions during first cannulation.
15. Briefly mention metabolic complications of CAPD.

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

**10 x 3 = 30 Marks**

16. Define Ultrafiltration coefficient
17. Name three emergency indications of haemodialysis
18. What are ECG changes of hyperkalemia?
19. Explain URR
20. Name common organism causing peritonitis
21. What is low molecular weight heparin? Give two examples
22. Common causes of seizures during HD
23. Examples of synthetic Dialyzer Membranes
24. Indications of Isolated ultrafiltration
25. Write molecular weight of urea, creatinine and albumin
26. Diet in patients on haemodialysis
27. Absolute contraindications for CAPD

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