

# Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Renal Dialysis Technology Degree Examination – 24-Nov-2023

**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. Explain principles of dialysis, factors affecting clearance and elaborate Urea Kinetic modeling.
2. Explain about complications of Arterio-Venous (AV) access, with focus on different access surveillance techniques to assess recirculations.
3. Metabolic complications of peritoneal dialysis (PD)

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

**10 x 5 = 50 Marks**

4. Describe briefly about dialysis fluid circuit with diagram and safety features incorporated in dialysis machines.
5. Physical examination of AV fistula and graft
6. Causes of Hypotension during dialysis and its management and preventions
7. Briefly explain the history of dialysis.
8. Heparin associated complications
9. Mechanical complications of peritoneal dialysis
10. Type of ultrafiltration failure and management in PD patient
11. Peritoneal dialysis modalities in acute kidney injury
12. Explain about non-glucose containing PD solutions and its advantages and disadvantages.
13. Tidal peritoneal dialysis and its advantages and disadvantages
14. Explain factors affecting ultra filtration in peritoneal dialysis.
15. Explain long term complications of veno-venous access.

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

**10 x 3 = 30 Marks**

16. List immediate complications of central venous catheterization.
17. Content of PD fluid
18. CAPD
19. PD catheter break-in period
20. Define ultra filtration co-efficient.
21. Define  $K_0A$ .
22. Difference between low flux, high efficiency and high flux dialysers
23. Potential AV graft locations
24. Indications for tunneled dialysis catheters
25. What are the risks during removal of temporary catheter and how to prevent?
26. Steal syndrome
27. Oncotic pressure

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