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 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 (Second Question Choice)   **2 x 10 = 20 Marks**

1. Discuss types of heparinisation in dialysis. Add a note on heparin-free dialysis

2. Discuss transport mechanism in haemodialysis and peritoneal dialysis
   OR
   Give a detailed note on apparatus of peritoneal dialysis

SHORT ESSAYS (Question No 5 & 10 choice)   **10 x 5 = 50 Marks**

3. Explain hollow fiber dialyzer with their technical and clinical consideration

4. Venovenous HD access – types, design and insertion location

5. Compare the true and false aneurysm of AV fistula
   OR
   Write different types of vascular access and illustrate possible locations for the same

6. Regional anticoagulation in HD

7. Analyse monitoring devices and safety alarms of HD machine

8. Interpret final dialysis solution composition

9. Explain medical complications during HD

10. Elaborate URR and Kt/V
    OR
    What is Ultrafiltration failure (UFF) and how to diagnose UFF?

11. Summarise the acute and chronic catheters of PD with diagram

12. Explain exit site and tunnel infection

SHORT ANSWER (Question No. 15 & 20 choice)   **10 x 3 = 30 Marks**

13. Write metabolic complications of peritoneal dialysis

14. Indications for PD during acute renal failure

15. Assessment of AV fistula for first cannulation
    OR
    Write different types of catheter locks

16. Protamine sulphate use in haemodialysis unit

17. Note on single needle devices

18. Modalities of chronic PD

19. Define relapsing, recurrent and repeat periotonitis

20. Scribner's shunt
    OR
    Rule of sixes

21. Dwell time in how average transporters and high average transporters

22. How to find out iron saturation in dialysis patient?

****