

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0423]

APRIL 2023

Sub. Code: 2511

**DIPLOMA IN DIALYSIS TECHNOLOGY
SECOND YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER I – INTRODUCTION TO DIALYSIS – PART I**

Q. P. Code: 842511

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on: **(3 x 10 = 30)**

1. What are the similarities and differences between Slow Low Efficiency Dialysis (SLED) and Continuous Renal Replacement Therapy (CRRT)? Explain the indications of SLED and CRRT.
2. Discuss in detail about the patient and Hemodialysis machine parameters that need to be monitored during a Dialysis session.
3. Discuss in detail how will you monitor Water Treatment Systems in Dialysis unit?

II. Write notes on: **(10×5=50)**

1. Discuss physiological principles involved in Hemodialysis and CRRT.
2. Steps in Dialyzer reprocessing.
3. How will you manage a patient with intradialytic hypotension?
4. Explain the differences of AV fistula and AV graft.
5. What do you mean by Kt / V? What are the modifications you make to increase Kt/V?
6. What are the various temporary vascular accesses? Discuss its advantages and disadvantages.
7. Precautions during Dialysis of HIV/AIDS patients.
8. How will you prepare vascular access for Cannulation?
9. How will you handle Biomedical Waste in Dialysis unit?
10. Medicolegal aspects of maintenance of records in Dialysis unit.

III. Short answers on: **(10×2=20)**

1. What do you mean by Dry Weight?
2. Importance of Air Detector Alarm.
3. List out three acute complications of Dialysis.
4. What is Dialysis Disequilibrium Syndrome?
5. How will you collect water sample and Dialysate sample for culture?
6. Complications of Dialysis in Neonates.
7. Role of carbon filter in water treatment.
8. Reasons for high venous pressure alarm.
9. What are the types of Dialyzer membranes used in Dialysis?
10. Define Diffusion and Osmosis.
