

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

[AHS 0424]

APRIL 2024

Sub. Code: 1336

B.Sc. DIALYSIS TECHNOLOGY
THIRD YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER I – DIALYSIS TECHNOLOGY
Q.P. Code: 801336

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

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

1. Explain in detail about water treatment for hemodialysis with diagram.
2. What are the various modalities of Renal Replacement Therapy? Describe each modality, its indications, advantages and disadvantages in detail.
3. What are the indications of Continuous Renal Replacement Therapy? Write about its various modalities.

II. Write notes on: **(8 x 5 = 40)**

1. How to prevent catheter related infections in hemodialysis unit?
2. Write about pre, intra and post dialysis patient monitoring.
3. Enumerate the causes of Chronic Kidney Disease (CKD). Add a note on stages of CKD.
4. What are all the tests to be done in donor and recipient workup for Renal Transplantation?
5. Explain the types of peritoneal dialysis.
6. What are the types of permanent access for hemodialysis and its complications?
7. What are the factors favouring clotting of the extra-corporeal circuit? What are the signs of clotting in the extra-corporeal circuit?
8. How to prevent interdialytic hypotension during hemodialysis?

III. Short answers on: **(10 x 3 = 30)**

1. Complications of Dialysis.
2. Techniques used to cannulate AV fistula.
3. Name some newer peritoneal dialysis solutions.
4. What is dry-weight? How do you assess dry weight in dialysis patients?
5. What is hybrid dialysis?
6. Dietary recommendations of patients on hemodialysis and peritoneal dialysis.
7. What is the role of therapist in rehabilitation of patient on dialysis?
8. Composition of dialysate.
9. What is Slow Efficiency Dialysis and mention few indications for SLED?
10. Steps in hand hygiene.
