

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)

B.Sc. (RENAL DIALYSIS TECHNOLOGY) DEGREE
EXAMINATION – August 2019
Third Year

APPLIED DIALYSIS TECHNOLOGY - PAPER- I

Time: Three hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Describe the anatomy and physiology of peritoneal membrane, its blood supply and lymphatic drainage. Add a note on its functions as a dialysis membrane.
2. Enumerate the complications that can occur during Hemodialysis. Explain in detail about management of any two complications.

II. Write short essays on any TWO of the following: (2 x 10 = 20)

3. Explain the parts of a Hemodialysis machine. Add a note on the important alarms during dialysis and their rectifications.
4. Explain the methods of assessing the Hemodialysis adequacy. Add a note on the causes for inadequate dialysis.
5. Explain about the principles of hemodialysis and add a note on types of Hemodialysis.
6. Describe the types, care and complications of vascular access used in hemodialysis.

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. Newer peritoneal dialysis solutions.
8. Metabolic complications of peritoneal dialysis.
9. Peritoneal equilibration test.
10. Dialyser membranes.
11. Access recirculation.
12. Laboratory data analysis for Hemodialysis patients.
13. Heparin.
14. Types of dialysate used in hemodialysis.
15. Peritoneal Dialysis Catheters.
16. ISPD guidelines on peritonitis in PD patients.
