

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

**B.Sc. (RENAL DIALYSIS TECHNOLOGY) DEGREE**  
**EXAMINATION – September 2021**

**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. Explain in detail the anatomy and physiology of peritoneal membrane, in blood supply and lymphatic drainage. Add a note on its function as dialysis membrane.
2. Describe in detail the Dialysis machines, their mechanism of functioning and management.

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

3. Principles and types of Haemodialysis.
4. History of Dialysis.
5. Peritoneal access devices.
6. Types, case and complications of vascular access used in haemodialysis.

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

7. Access recirculation.
8. ISPD guidelines on peritonitis in PD patients.
9. Heparin.
10. Indications of dialysis.
11. Renal failure.
12. Acute dialysis.
13. Dialysate.
14. Peritoneal dialysis.
15. Anaemia.
16. Dialysis withdrawal criteria for acute dialysis.