

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

**B.Sc. (RENAL DIALYSIS TECHNOLOGY) DEGREE**  
**EXAMINATION – February 2020**  
**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. What is acute peritoneal dialysis? Describe its indications, contraindications, prescription and management.
2. Explain the physiological principles of Hemodialysis and discuss the anticoagulants used in Hemodialysis.

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

3. Discuss the role of urea kinetic modeling in dialysis therapy and the formulae for monitoring Hemodialysis adequacy.
4. Explain the PD apparatus, solutions and connectology.
5. Give an account of general, pre and post Hemodialysis assessment of the patient.
6. Give an account of infection complications of peritoneal dialysis.

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

7. Indications for dialysis.
8. Write a note on types of dialysers and membranes.
9. Write a note on exit site evaluation and care.
10. What are the mechanical complications of peritoneal dialysis?
11. Tidal peritoneal dialysis.
12. Ultrafiltration failure in peritoneal dialysis.
13. Machine monitoring during Hemodialysis.
14. What are the types of vascular access and its complications?
15. History of Hemodialysis.
16. Immediate and delayed complications of Hemodialysis.

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