

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
B.SC (RENAL DIALYSIS TECHNOLOGY) DEGREE EXAMINATION -
September 2021

Third Year

APPLIED DIALYSIS TECHNOLOGY PAPER I

Three Hours

Maximum: 75 marks

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

1. Write in detail about History of Hemodialysis.
2. Describe the Sampling methods, Culture of the Peritoneal fluid and Management in a Peritonitis patient.

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

3. Catheter related blood stream infections – what are they? How is the diagnosis made? How are they treated?
4. Write on protocol for maintenance of hemodialysis machines.
5. Describe on the Pathogenesis, Diagnosis, Treatment and Prevention of Encapsulating Peritoneal Sclerosis.
6. How to manage air embolism in a patient during hemodialysis?

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

7. What are the mechanism of solute transport in hemodialysis?
8. Describe the process of priming and starting hemodialysis.
9. Explain the anatomical and physiological role of peritoneal membrane.
10. Differences between AV fistula and AV graft.
11. Write a note on automated peritoneal dialysis.
12. Common complications encountered during a hemodialysis session.
13. Mention the serology test taken in a dialysis and why it is done?
14. What modifications can be made to dialysis prescription in order to increase Kt/V?
15. Classify patients according to the PET status.
16. Care of venous dialysis catheters.
