

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

B.Sc. (RENAL DIALYSIS TECHNOLOGY) DEGREE
EXAMINATION – March 2019
Second Year

PHARMACOLOGY RELATED TO DIALYSIS
TECHNOLOGY

Time: Three hours

Maximum: 75 marks

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

1. Classify diuretics. Explain the mechanism of action, dosage and side effects of any two commonly used diuretics.
2. Enumerate the commonly used antibiotics. Give an account of dosing and side effects of cephalosporin.

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

3. Explain the composition of the chemicals used in dialysis and their mechanism of action.
4. Describe the mechanism of action of drugs used for managing hypotension. Add a note on their adverse effects.
5. Describe the mechanism of action, uses and side effects of inotropic drugs.
6. Write in detail about the composition of various CAPD solutions.

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

7. Vitamin D analogues.
8. Newer Erythropoietin stimulating agents.
9. Vaccination in dialysis patients.
10. Newer phosphate binders used in CKD.
11. Side effects of heparin.
12. Newer antihypertensive drugs.
13. Hyperkalemia.
14. Replacements used in CRRT.
15. Cardiovascular drugs in dialysis emergencies.
16. Bicarbonate dialysis.