

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
(A DEEMED TO BE UNIVERSITY)

**B.Sc. Allied Health Sciences Third Year (Semester-VI)**

**B.Sc. Renal Dialysis Technology (RDT)**

October -2018 Examination

Time : 3 Hrs.

[Max. Marks : 100]

**PAPER –I**

**APPLIED DIALYSIS TECHNOLOGY-I**

**Q.P Code : AHS-146**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Discuss anticoagulant methods in hemodialysis patients at risk of bleeding.
2. Draw and label vacuum parts of a hemodialysis machine.

**SHORT ESSAY (Answer any Ten)**

**10 X 5 = 50 Marks**

3. Biochemical parameters to monitor adequacy of dialysis.
4. High flux dialysis.
5. Discuss reasons for withdrawal of dialysis.
6. Testing of peritoneal membrane function.
7. Staphylococcal exit site infection.
8. Automated peritoneal dialysis.
9. Post dialysis blood sampling.
10. Discuss long term complications of hemodialysis.
11. Vascular access surveillance and management of access dysfunction.
12. Discuss dialysis access recirculation.
13. Sodium profiling.
14. Hemolysis during dialysis.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

15. Orthostatic hypotension.
16. Replacement fluids in continuous renal replacement therapy.
17. Dwell time.
18. Antibiotics used to treat CAPD peritonitis.
19. Name three antiepileptic agents.
20. Name three toxins/poisons removed by dialysis.
21. Home hemodialysis.
22. Malnutrition in PD.
23. Solute removal in PD.
24. Normal values of albumin, cholesterol and vitamin D.
25. Normal values of pH, HCO<sub>3</sub> and pCO<sub>2</sub>.
26. Phosphate binders.

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**PAPER –II**  
**APPLIED DIALYSIS TECHNOLOGY - II**

**Q.P Code : AHS-147**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. What are the various bone disease seen in dialysis patient? Describe briefly about each. How to manage  $\beta_2$  microglobulin.
2. Draw a diagram of Water treatment system for Hemodialysis. Describe the same

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

3. What is renal anemia? How to manage it?
4. Write briefly about Telemedicine in dialysis practice.
5. Write a brief note on nocturnal hemo dialysis? What are its potential benefits?
6. What is meant by Catheter related blood stream infection? How to identify and manage the same.
7. Why is aluminium harmful to a patient on hemodialysis?
8. What are the food rich in phosphorous? Why they should be avoided in a patient on dialysis?
9. Write a note on infection control practice in a hemodialysis unit.
10. What are the problems faced in a dialysis patient who is suffering from diabetes?
11. Ultra dialytic hypotension instead of intra dialytic hypertension.
12. What is Darbepoietin? What strengths is it available? Frequency of its administration.
13. What are the routes of administering erythropoietin? What are its complications?
14. Write a note on ultrapure water.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

15. What are the various iron preparations available which are used in HD patients?
16. Foods rich in calcium.
17. What are the target of ferritin, Tsat to be achieved in a patient on hemodialysis?
18. What is ultrapure water?
19. Name 3 phosphate binders.
20. What are the vaccines routinely given to a patient on hemodialysis?
21. Name 3 drugs used to treat diabetes mellitus in a patient on hemodialysis.
22. Name 3 anti Hypertensive drugs.
23. What are the symptoms and effects of anemia?
24. Name 3 drugs to treat catheter related blood stream infection.
25. Name 3 vitamin D analogues.
26. Normal serum calcium and serum phosphorus value