



**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

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

**September 2025 Examination**

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

**Paper – I**

**[Max.Marks: 80]**

**Time: 2.30 Hrs.**

**APPLIED DIALYSIS TECHNOLOGY**

**Q.P Code: K6511**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Discuss the symptoms and signs of peritonitis in a patient on CAPD. Mention the investigation the treatment of peritonitis in CAPD.
2. Explain acute complication in hemodialysis and management.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Draw a line diagram of blood circuit of hemodialysis apparatus. Describe the same.
4. Enumerate and describe various safety alarms in dialysate circuit.
5. Describe various types of anticoagulation protocols in HD unit.
6. Explain Three pore model in peritoneal dialysis.
7. Long term complication of hemodialysis patients.
8. Exit site infection in Peritoneal dialysis.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Composition of dialysate solution.
10. Mention normal values of serum creatinine, sodium, blood urea.
11. Sodium profiling.
12. Mention 3 sings of dialyser clotting.
13. Management of blood leak during dialysis.
14. What is the composition of renalin solution & uses of it.
15. What are the methods of sterilizing the dialyser.
16. What is the composition of citrosteril solution & uses of it.
17. Management of hypotension and air embolism during hemodialysis.
18. What is the role of formalin in dialysis disinfectant.

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**September 2025 Examination**

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

**Paper – II**

**[Max.Marks: 80]**

**Time: 2hrs 30 mins**

**APPLIED DIALYSIS TECHNOLOGY**

**Q.P Code: K6512**

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

*Draw neat labelled diagrams wherever necessary.*

### **LONG ESSAY**

**2 X 10 = 20 Marks**

1. Write briefly about chronic kidney disease- mineral and bone disorder.
2. List components of a Water treatment plant for a dialysis unit in sequence with suitable diagrams & explain in detail about each component.

### **SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Mention various Iron preparations. Complications of using iron injections.
4. Write a short note on Hemodialysis.
5. Explain psychological problems in dialysis patients.
6. Write briefly about telemedicine in dialysis practice.
7. Hypertension management during dialysis
8. Write brief note on Daily dialysis.

### **SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Complications of central venous catheterisation.
10. Protocol and Role of Hepatitis B vaccination in HD patients.
11. First use syndrome in haemodialysis.
12. Dialysis management of Lithium poisoning.
13. Complications of plasmapheresis.
14. Extra corporeal Immunoabsorption.
15. Ultrafiltration failure in peritoneal dialysis.
16. High flux dialysis.
17. Automated versus manual reuse of dialyzers.
18. What is ultrapure water?

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