



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

(A DEEMED TO BE UNIVERSITY)

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

September 2023 Examination

B.Sc. Renal Dialysis Technology (RDT)

Paper – I

[Max. Marks : 100]

Time : 3 Hrs.

**Applied Dialysis Technology Paper-I**

Q.P Code : J6541

*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 investigations and the treatment of peritonitis in CAPD
2. Explain blood circuit of hemodialysis and explain various alarms in hemodialysis.

**SHORT ESSAY** (Answer any Ten)

10X 5 = 50 Marks

3. Anticoagulation in Hemodialysis
4. Exit site infection in PD
5. Explain complications of hemodialysis.
6. Explain PET and types of PET.
7. Regional anti coagulation in HD
8. Heparin free dialysis
9. Explain dialysate circuit and write a note of sodium profiling and UF profiling.
10. Describe various types of anticoagulation protocols in HD unit
11. Discuss the adequacy of dialysis
12. Peritoneal dialysis fluid – composition
13. Long term complication of HD.
14. What are the routine blood test done monthly and 3 months in dialysis patient?

**SHORT ANSWERS** (Answer any Ten)

**10 X 3 = 30 Marks**

15. Define Diffusion , osmosis & Ultrafiltration
16. Solvent Drag
17. Residual Renal function
18. Regional anti coagulation in HD
19. Mention the organisms involved in peritonitis
20. Residual Renal function
21. Tidal PD
22. Isolated ultrafiltration
23. Mechanical complications of PD
24. Role of telemedicine in dialysis
25. Name the person who first created AV shunt?
26. AV graft is created by using what synthetic bridge?



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

**Paper – II**

[Max. Marks : 100]

Time : 3 Hrs.

**Applied Dialysis Technology**

**Q.P Code : J6542**

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

*Draw neat labelled diagrams wherever necessary.*

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*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Discuss Renal Anemia and its Management
2. Write neatly a label diagram of water treatment plant and mention the various parts and their roles

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

3. Universal precautions during hemodialysis
4. Infections in Patients undergoing Hemodialysis
5. Vaccination in Dialysis patients
6. Bone disease in Dialysis patients
7. Online Dialysis
8. **Discuss the problems in dialyzing a Diabetic patient.**
9. Artificial Wearable Kidney
10. Telemedicine in dialysis practice
11. **Daily dialysis.**
12. Nocturnal Dialysis
13. **Hypertension in dialysis patients.**
14. **Explain psychological problems in dialysis patients.**

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

15. Biocompatibility in hemodialysis
16. Residual renal functions
17. Ultrapure water
18. Three Pore Model in PD
19. Exit Site Infection
20. Darbepoetin
21. What is CERA?
22. Name three IV Iron Preparation
23. Adynamic Bone disease
24. Sodium Profiling
25. Nutrition in Dialysis
26. Mention the normal Values of Serum Calcium , Phosphorus and Serum Albumin