



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

(A DEEMED TO BE UNIVERSITY)

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

April 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 principles of Hemodialysis
2. Discuss the symptoms and signs of peritonitis in a patient on CAPD. Mention the investigations and the treatment of peritonitis in CAPD

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

3. Anticoagulation in Hemodialysis
4. Exit site infection in PD
5. Mention the various temporary access for dialysis
6. Regional anticoagulation in hemodialysis
7. Exit site infection diagnosis & treatment
8. Long term complication of PD
9. Write a short on daily dialysis
10. Heparin complication and antidote
11. What are the routine blood test done monthly and 3 months in dialysis patient?
12. Nocturnal dialysis
13. Enumerate the various types Temporary vascular Access
14. Advantages & Disadvantages of AV Shunt

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

15. Isolated ultrafiltration
16. What is sequential dialysis?
17. Composition of PD solutions
18. Name the causes for vomiting during hemodialysis
19. Regional anti coagulation in HD
20. Residual Renal function
21. AV graft is created by using what synthetic bridge?
22. Define Diffusion , osmosis & Ultrafiltration
23. Biocompatibility
24. Solvent Drag
25. Isolated ultrafiltration
26. Heparin induce thrombocytopenia



*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 causes of 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. Online Dialysis
5. What are the various vaccines used in Dialysis patients
6. Bone disease in Dialysis patients
7. Nocturnal Dialysis
8. Adequacy of Dialysis
9. Infections in dialysis patients
10. Anemia Management in Dialysis
11. Long term complications of Hemodialysis
12. AAMI Criteria for water for Hemodialysis
13. Access Recirculation
14. Telemedicine in dialysis practice

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

15. Mention the composition of Renal and its use
16. KOA of Dialyzer
17. Ultrapure water
18. Three Pore Model in PD
19. Dry weight
20. What is CERA
21. Darbepoetin
22. Peritoneal dialysate composition
23. Adynamic Bone disease
24. Sodium Profiling
25. Nutrition in Dialysis
26. Mention the normal Values of Serum Calcium , Phosphorus and Serum Albumin