

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

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

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

September / 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. Enumerate the various types of CAPD catheters and discuss the various insertion techniques of CAPD catheters.
2. Discuss the acute and long term complications of Hemodialysis.

**SHORT ESSAY (Answer any Ten)**

**10 X 5 = 50 Marks**

3. Clinical Indicators of access dysfunction in Hemodialysis.
4. Dialysis access recirculation.
5. Peritonitis in CAPD-Diagnosis and Management.
6. Isolate Ultrafiltration.
7. Biocompatibility of dialysis membranes.
8. Urea kinetic modeling in Hemodialysis.
9. Safety Monitors in Hemodialysis machine.
10. Dialyzer Reuse-Advantages and Disadvantages.
11. Urea Reduction Ratio (URR) and Kt/V in Hemodialysis.
12. Peritoneal Equilibration Test(PET)
13. Universal precautions in Hemodialysis unit.
14. Mechanical Complications in CAPD.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

15. Dialysis Hemodialysis.
16. Isolated Ultrafiltration.
17. Solvent Drag.
18. Define Diffusion and Osmosis.
19. Rule of six in assessment of AV Fistula.
20. Scribner Shunt.
21. Sodium Modeling Hemodialysis.
22. Regional Anti-Coagulation in Hemodialysis.
23. Composition of Dialysate in Hemodialysis.
24. Diet in CAPD.
25. Steps of AV Fistula Cannulation.
26. Various Types of dialysis membranes.

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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. Explain in detail about all modalities of Peritoneal dialysis therapy. How do you assess adequacy of Peritoneal Dialysis?
2. Write in detail about Hemodiafiltration and Hemofiltration.

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

3. Heparin protocol for continuous therapies (CRRT).
4. Sustained Low Efficiency Dialysis (SLED).
5. Criteria for consideration of dialysis or hemoperfusion in poisoning.
6. Strategies to avoid complications during Plasmapheresis.
7. Short Daily Hemodialysis.
8. Precautions while dialysing patients with acute myocardial infarction.
9. Icodextrin.
10. Choice of acute dialysis modalities in infants and children.
11. How do you do Hemodialysis in Retroviral viral positive patient?
12. Daily dietary recommendations for dialysis patient.
13. Comparison of membrane apheresis and centrifugal devices.
14. Advantages and disadvantages of dialyzer reuse.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

15. Complications of Hemoperfusion.
16. Tests of dialyzer performance.
17. Signs of clotting in extracorporeal circuit.
18. Common complications encountered during dialysis in infants and children.
19. Advantages of CRRT.
20. Mention three drugs that are not removed by Hemodialysis.
21. Mention three antibiotics that are used to treat Peritonitis.
22. Normal serum levels of urea, creatinine and potassium.
23. Causes of fluid overload in PD patients.
24. Three drugs that reduce Phosphate levels.
25. Three antihyperkalemic drugs.
26. Peritoneal Dialysis solution dextrose concentrations.