



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

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

March 2024 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 3 Hrs.

Paper – I

[Max.Marks: 100]

APPLIED DIALYSIS TECHNOLOGY

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 investigation the treatment of peritonitis in CAPD.
2. Explain acute complication in hemodialysis and management.

SHORT ESSAY (Any ten)

10 X 5 = 50 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. What are the investigations done in patients on hemodialysis? How frequently are they done?
6. Describe various types of anticoagulation protocols in HD unit.
7. Regional anticoagulation in hemodialysis.
8. Withdrawal of dialysis.
9. Explain Three pore model in peritoneal dialysis.
10. Long term complication of hemodialysis patients.
11. Heparin complication and its antidote.
12. Describe metabolic complications of peritoneal dialysis.
13. Peritoneal equilibrium test.
14. Exit site infection in Peritoneal dialysis.

SHORT ANSWERS (Any ten)

10 X 3 = 30 Marks

15. Define Dialysis, Acute Kidney Injury, Chronic Kidney Disease.
16. Composition of dialysate solution.
17. Mention normal values of serum creatinine, sodium, blood urea.
18. Isolated ultrafiltration.
19. Sodium profiling.
20. Mention 3 signs of dialyser clotting.
21. Management of blood leak during dialysis.
22. What is the composition of renalin solution & uses of it.
23. What are the methods of sterilizing the dialyser.
24. What is the composition of citrosteril solution & uses of it.
25. Management of hypotension and air embolism during hemodialysis.
26. What is the role of formalin in dialysis disinfectant.

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Time: 3 Hrs.

Paper – II

[Max.Marks: 100]

APPLIED DIALYSIS TECHNOLOGY

Q.P Code:J6542

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Write neatly a label diagram of water treatment plant and mention the various parts and their roles?
2. What are psychologic problems and psychosocial issues in the ESRD population?

SHORT ESSAY (Answer any ten)

10 X 5 = 50

Marks

3. What is meant by catheter related blood stream infection? How to identify and manage the same.
4. Why aluminium harmful to a patient on hemodialysis.
5. Write briefly about telemedicine in dialysis practice.
6. Write briefly about renal osteodystrophy.
7. Hypertension management during dialysis
8. Write brief note on Online dialysis.
9. Diet in a patient on maintenance hemodialysis.
10. Write brief note on Daily dialysis.
11. What is renal anemia? How to manage it?
12. Discuss the problems in dialyzing a dietetic patient.
13. Write brief note on Artificial wearable kidney? What are its benefits?
14. Write brief note on Nocturnal dialysis? What are its benefits?

SHORT ANSWERS (Answer any ten)

10 X 3 = 30 Marks

15. First use syndrome in hemodialysis.
16. Mention 3 antihypertensive drugs.
17. What is CERA.
18. What is ultrapure water? And write AAMI criteria of water used in hemodialysis.
19. What is Dry weight?
20. Mention the normal values of serum calcium, phosphorus and serum albumin.
21. Name 3 drugs to treat catheter related blood stream infection.
22. Name 3 IV iron preparations.
23. Dietary treatment for anemia.
24. Name 3 phosphate binders.
25. Write composition of dialysis.
26. What is renalin? mention the composition and uses.

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