



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

March 2025 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 2.30 Hrs.

Paper –I

[Max. Marks: 80]

Applied Dialysis Technology

Q.P Code: K5501

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the principles of dialysis.
2. What are the types of vascular access for Hemodialysis patient? What is meant by CRBSI and how will you prevent CRBSI?

SHORT ESSAY

6 X 5 = 30 Marks

3. Mention the different dialyser membranes
4. What are the indications of dialysis?
5. Describe in brief temporary vascular access and list complications associated with it.
6. Complication of internal jugular catheter insertion.
7. Mention the various PD catheters available.
8. Advantages and disadvantages of Hemodialysis and peritoneal dialysis.

SHORT ANSWERS

10 X 3 = 30 Marks

9. Write a note on blood leak detector.
10. What is counter current and co-current flow of dialysate.
11. What is the material used in manufacturing of AV graft.
12. What is solvent drag
13. What is the recommended span of femoral and internal jugular catheters?
14. What is rule of six
15. What is dialysis disequilibrium syndrome
16. Who is father of Dialysis
17. What is the surface area (m²), priming volume, Kuf (ml/hr/mmHg), membrane of F6HSP and F8HSP?
18. Antibiotic lock in catheter.

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B.Sc. Renal Dialysis Technology (RDT)

Time: 2.30 Hrs.

Paper –II

[Max. Marks: 80]

Applied Dialysis Technology

Q.P Code: K5502

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Define Continuous Renal Replacement Therapy (CRRT). What are the indications for CRRT? List the different types and the differences between them. Draw and explain the typical CRRT circuit.
2. Explain in detail about dialyzer reusing process.

SHORT ESSAY

6 X 5 = 30 Marks

3. Dialysis in patients positive for HIV, HBsAG & HCV.
4. Explain Plasmapheresis.
5. MARS (Molecular Adsorbent Recirculating System).
6. Explain different modalities of peritoneal dialysis.
7. Explain dialysis in advanced liver diseases.
8. SLED (Sustained Low-Efficiency Dialysis).

SHORT ANSWERS

10 X 3 = 30 Marks

9. Differentiate between CAPD and APD.
10. What are the precautions to be taken to prevent seroconversion in hemodialysis unit?
11. Dietary recommendations for patients in PD.
12. Post dialysis evaluation of a patient undergoing acute hemodialysis.
13. Tests for dialyzer performance after reuse.
14. First use syndrome in haemodialysis.
15. Disposal of PD solutions in an HIV infected patients
16. Ultrafiltration failure in peritoneal dialysis.
17. Causes of PD Outflow Failure.
18. Tests for dialyzer performance after reuse.

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