



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

April 2024 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 extracorporeal circuit with neat and labelled diagram. And list alarms encountered during hemodialysis.
2. Discuss the symptoms and signs of peritonitis in a patient on CAPD. Mention the investigations and management of peritonitis in CAPD.

SHORT ESSAY

6 X 5 = 30 Marks

3. Types of vascular access for Hemodialysis.
4. Types of peritoneal dialysis.
5. What is the high flux dialysis and high efficiency dialysis?
6. Explain Allen test in brief.
7. Describe in brief three pore model and effective peritoneal surface area.
8. Describe in brief temporary vascular access and list complications associated with it.

SHORT ANSWERS

10 X 3 = 30 Marks

9. Write about the complications of arterio- venous fistula.
10. Tests for dialyzer performance after reuse.
11. Types of AV fistula cannulation
12. Complications of central venous catheterization
13. Composition of dialysate.
14. What is the surface area (m²), priming volume, Kuf (ml/hr/mmHg), membrane of F6HSP and F8HSP?
15. What is priming volume?
16. Techniques used to cannulate AV fistula.
17. List 3 physical examination of AV fistula.
18. What is normal sodium, potassium and bicarbonate level in dialysate.

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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 sustained low efficiency dialysis (SLED). Write in detail about the clinical indications, dialysis settings, anti coagulation protocol, advantages and disadvantages and complications of SLED.
2. Explain in detail about hemodiafiltration.

SHORT ESSAY

6 X 5 = 30 Marks

3. Explain different modalities of peritoneal dialysis.
4. Explain hemoperfusion.
5. Challenges in Dialysis of advanced liver disease.
6. Plasmapheresis.
7. Issues in dialyzing infants and children's.
8. Dialyser reuse – methods, tests, advantages and disadvantages.

SHORT ANSWERS

10 X 3 = 30 Marks

9. Differentiate between CAPD and APD.
10. What is renalin? Mention the composition and uses.
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. Indications for daialysis.

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