

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

March 2021 Examination

B.Sc. Renal Dialysis Technology

Time : 3 Hrs.

Paper – I

[Max. Marks : 100]

Applied Dialysis Technology Paper-I

Q.P Code : J5531

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Explain in brief physiology of peritoneal transport and describe the factors affecting it.
2. Describe in detail dialyzer reactions.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Describe in brief types of PD catheters and its insertion technique.
4. List all the complications associated with PD catheters.
5. Explain in brief permanent vascular access and list its complications
6. Explain Allen Test in brief
7. Describe in brief three pore model and effective peritoneal surface area.
8. Describe in brief types of dialyzer based of shape and its material.
9. Define principles of haemodialysis and list factors affecting diffusion.
10. Draw a neat and labelled diagram of extracorporeal blood circuit.
11. List the indications of dialysis
12. List the advantages and disadvantages of PD
13. Describe in brief types of dialysate and list its contents.
14. Describe in detail Anaphylactic type reaction of dialyzer

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Write a note on Willem Johan Kolff.
16. What is counter current and co current flow of dialysate?
17. What are the symptoms of Type B dialyzer reaction?
18. Write a note on blood leak detector?
19. What is Rule of 6?
20. Define convection
21. What are the common alarms faced during haemodialysis?
22. List the contents of dialysate.
23. List 3 complications of temporary vascular access.
24. What are the signs of clotting in extracorporeal blood circuit?
25. List 3 physical examination of AV fistula
26. What is normal sodium, potassium and bicarbonate level in dialysate?



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March 2021 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 3 Hrs.

Paper – II

[Max. Marks : 100]

Applied Dialysis Technology Paper-II

Q.P Code : J5532

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Plasmapheresis- Procedure, Indications and complications
2. Enumerate the various continuous therapies in CRRT. Write a prescription of CVVHDF.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Hemo adsorption
4. Hemo perfusion
5. MARS
6. SLED
7. Enumerate the different modalities of APD
8. Dialyzable poisons
9. How do you manage blood spill in dialysis room
10. Discuss causes of chest pain dialysis and how do you investigate
11. Dialysis in a pregnant patient
12. Dialysis in failed transplant patient
13. Challenges in dialysis in advanced liver disease
14. Dialyzer reuse- advantages and disadvantages

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. SCUF
16. AN-69 Membrane
17. Dose of erythropoietin and route of administration?
18. Causes of chest pain during HD
19. Post dialysis fatigue syndrome
20. What is solute removal index?
21. Mention the normal serum value of S Albumin, S Calcium and S Phosphorus
22. Name three non-heparin anticoagulants used in HD?
23. Name three common causes of hypotension in HD?
24. Nutrition in dialysis patient
25. Reasons for under delivery of prescribed dose of HD?
26. Describe problems encountered in a diabetic patient undergoing dialysis

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