

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

March 2023 Examination

B.Sc. Renal Dialysis Technology (RDT)

Paper – I

[Max. Marks : 100]

Time : 3 Hrs.

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 principles of haemodialysis and describe in detail factors affecting it.
2. Describe in brief types of peritoneal catheters and complications associated with it.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Explain in brief types permanent vascular access and list complications associated with it.
4. Draw a neat and labelled diagram of extracorporeal blood circuit.
5. Explain in brief three pore model.
6. Define principles of peritoneal dialysis and list factors affecting it.
7. Explain in brief temporary access used in haemodialysis
8. Describe in brief types of dialyzers
9. Explain in brief types and contents of dialysate.
10. What are the indications of dialysis?
11. Explain in brief Allen Test.
12. Describe Rule of 6.
13. List alarms associated with blood circuit and give 1 example of each.
14. Explain in brief PD catheter insertion technique.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. What is counter current and co current flow of dialysate?
16. What are the complications associated with PD catheter insertion?
17. Define fluid absorption.
18. Who invented the following
 - a. Rotating Drum dialyzer
 - b. AV Shunt
19. What is the material used in manufacturing of AV graft?
20. List the causes of anaphylactic type reaction.
21. What is meant by solvent drag?
22. Types of Chronic PD catheters.
23. List 3 advantages and disadvantages of PD.
24. What is the recommended span of Femoral and Internal Jugular catheters?
25. List 3 advantages and disadvantages of hollow fibre dialyzers?
26. List 3 symptoms of Type B dialyzer reaction.



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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. Describe the important precautionary measure & type of dialysis adopted while dialyzing patient with acute coronary syndrome?
2. Describe the precautions taken in dialysis patient HbsAg Positive and HIV positive patients

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Plasmapheresis
4. Dialyzer reuse- advantages and disadvantages
5. Dialysis in a pregnant patient
6. Hemo adsorption / Cytosorb.
7. Issues in Dialyzing Infants and children
8. SLED
9. Enumerate the different modalities of APD
10. MARS
11. Dialyzable poisons
12. Enumerate the various CRRT therapy's
13. Dialysis in failed Transplant
14. Hemo perfusion

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. Normal value of calcium, phosphorous, uric acid
20. Name two common causes of hypotension in HD?
21. Post dialysis fatigue syndrome
22. What is solute removal index?
23. Name three non-heparin anticoagulants used 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