

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

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

March 2022 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 3 Hrs.

[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. Describe extracorporeal circuit with neat and labelled diagram. And list alarms encountered during haemodialysis.
2. Describe in brief types of peritoneal catheters and complications associated with it.

SHORT ESSAY (Answer any Ten)

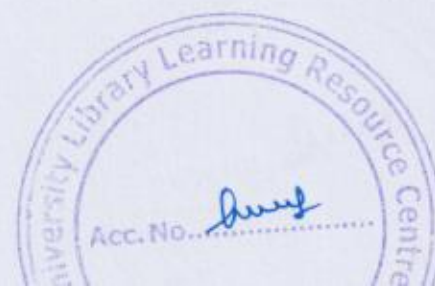
10X 5 = 50 Marks

3. List the indications of dialysis
4. Define diffusion and describe factors affecting it
5. Describe types of PD fluids and mention one advantage and disadvantage of each
6. Describe in brief temporary vascular access and list complications associated with it
7. Explain in brief physiology of peritoneal transport
8. Describe in brief complications associated with permanent vascular access
9. Explain in brief 3 pore model, distributed model and effective peritoneal surface area
10. Discuss the pre-operative planning and post-operative care of AV fistula
11. Describe Type A and Type B dialyzer reactions
12. List advantages and disadvantages of PD
13. What is rule of 6
14. Describe in brief PD catheter insertion technique

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Define convection, ultrafiltration in haemodialysis
16. Write a short note on first use syndrome
17. Write a short note on Rotating drum dialyzer
18. List physical examination of AV access
19. What are the functions of ABD and blood leak detector?
20. What is the recommended span of Femoral and Internal Jugular catheters?
21. List 3 advantages and disadvantages of hollow fibre dialyzers
22. Write a short note on AV shunt
23. What is the material used in manufacturing of AV graft?
24. What is meant by maturation of AV fistula
25. What favours fluid absorption in PD?
26. List 3 causes of outflow failure of PD catheter



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B.Sc. Renal Dialysis Technology (RDT)

Paper – II

[Max. Marks: 100]

Time: 3 Hrs.

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. Dialysis in acute poisoning, indications, precautions 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. Heparin free dialysis
4. Challenges in dialyzing HbsAg and HCV patients
5. Precautions while dialyzing a pregnant patient
6. Dialysis in Infants and children
7. Dialysis in failed transplant
8. Hemo perfusion
9. SLED
10. MARS
11. Plasmapheresis -procedure
12. Plasmapheresis- Indications and complications
13. Different modalities of PD in APD
14. Dialyzer reuse- advantages and disadvantages

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

- 15 Two adverse effect of heparin.
- 16 Causes of chest pain during HD.
- 17 Name three bacteria causing peritonitis
- 18 Reasons for under delivery of prescribed dose of HD?
- 19 What is solute removal index?
- 20 Nutrition in dialysis patient
- 21 Normal value of calcium, phosphorous, uric acid
- 22 AN-69 Membrane
- 23 Name three non-heparin anticoagulants used in hemodialysis
- 24 Describe problems encountered in a diabetic patient undergoing dialysis
- 25 SCUF
- 26 Dose of erythropoietin and route of administration?

