

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

B.Sc. Renal Dialysis Technology Third Year Semester-V
February 2020 Examination

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. Describe in brief types of HD vascular access and list complications associated with it.
2. Describe in brief dialyzer reactions

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

3. Define Diffusion and describe factors affecting it.
4. Describe in brief alarms related to blood circuit and dialysate circuit.
5. Describe in brief types of dialyzer based on membrane materials, design and flux
6. Describe the contents of dialysate.
7. What is Rule of 6?
8. Describe in brief physiology of peritoneal transport and list the factors affecting it.
9. Describe complication associated with PD catheter insertion technique.
10. Explain briefly three pore model.
11. What are the indications of dialysis?
12. Write a note on pre-operative and postoperative care of vascular access.
13. Describe extracorporeal blood circuit with neat and labelled diagram
14. List advantages and disadvantages of PD

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 chronic complications of PD catheters?
18. Define Osmosis
19. List 3 causes for outflow failure in PD
20. Why femoral HD catheter should not be kept for more than 10 days
21. What is meant by solvent drag?
22. Explain the procedure for Allen test
23. Types of Chronic PD catheters.
24. List three causes for high Venous Pressure alarm
25. Write a note on blood leak detector.
26. Define first use syndrome.

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B.Sc. Renal Dialysis Technology Third Year Semester-V

February 2020 Examination

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 measures and type of dialysis adopted while dialyzing patient with acute coronary syndrome?
2. Plasmapheresis- Procedure, Indications.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

3. Precaution to be taken while dialyzing HbsAg Positive and HCV positive patients.
4. What are the challenges in dialyzing Infants and children.
5. Dialyzer reuse- advantages and disadvantages.
6. Write about the challenges faced while dialyzing a pregnant patient.
7. Complications of Plasmapheresis.
8. Haemoperfusion.
9. SLED.
10. MARS.
11. Enumerate the various Continuous therapies in CRRT.
12. Precautions to be take in dialyzing a patient with advanced liver disease.
13. Dialyzable poisons.
14. Dialysis in failed transplant.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

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

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