SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

Feb/March 2017 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 3 Hrs. **Paper - I** [Max. Marks: 100]

Applied Dialysis Technology -.I

Q.P. Code: AHS-146

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 detail about Physiologic Principles of Hemodialysis.
2. Definition, Functional Anatomy and Physiology of Peritoneal Dialysis.

SHORT ESSAY (Answer any Ten) l0X 5 = 50 Marks

3. Cardiopulmonary Recirculation.
4. Residual Renal Function.
5. Membranes of Dialyzer.
6. Methods of Purifying Water for Hemodialysis.
7. Disinfection of Dialysis Machines.
8. Complications of Central Venous Catheterization.
9. Why A V Fistulas are better than A V Grafts?
10. Peritoneal equilibration Test (PET).
11. Icodextrin.
12. Automated Peritoneal Dialysis(APD).
13. Types of chronic peritoneal dialysis catheters.
14. Complications of Acute Peritoneal dialysis catheter insertion.

SHORT ANSWERS (Answer any Ten) 10 X 3 = 30 Marks

15. Urea Reduction Ratio.
16. Alarams in Dialysis solution circuit.
17. Water and dialysis solution quality requirements.
18. Compositon of standard hemodialysis solution.
19. Causes of hemodialysis catheter dysfunction.
20. How do you prepare antibiotic lock?
21. A V Fistula needle insertion techniques.
22. Sieving in peritoneal dialysis.
23. The Moncrief-Popovich method.
24. Outflow failure in Peritoneal dialysis.
25. Urgent indications for initiation of Dialysis.
26. Mass transfer area coefficient (KoA).

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Feb/March 2017 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 3 Hrs. **[Max. Marks: 100]**

Paper – II

Applied Dialysis Technology - II

Q.P. Code: AHS-147

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY **2 X 10 = 20 Marks**

1. Discuss the steps of reuse of dialyzer in HD. What are the advantages and disadvantages of reuse?
2. What is CRRT? Discuss in detail about the various modalities of CRRT.

SHORT ESSAY (Answer any Ten) **10X 5 = 50 Marks**

3. MARS.
4. Precautions during dialyzing Infants and children.
5. Enumerate the different modalities of peritoneal dialysis.
6. Haemoperfusion.
7. Precautions during dialysis of HBsAg and HIV patients.
8. Precautions while dialyzing advanced liver disease patients.
9. What is SLED? How is it performed?
10. Plasmapheresis – Indications and procedure.
11. What is Renalin? Write its compositions and its use.
12. Heparin induced Thrombocytopenia.
13. Dialyzable poisons.
14. Precautions while dialyzing a pregnant patients.

SHORT ANSWERS (Answer any Ten) **10 X 3 = 30 Marks**

15. Complications during plasmapheresis.
16. Dialysis in patient with congestive cardiac failure.
17. Dose of systemic and Rigid heparin.
18. Indications of Heparin free dialysis.
19. Automated peritoneal dialysis.
20. Vaccines in patients undergoing hemodialysis.
21. Nocturnal dialysis.
22. How do you manage blood spill in dialysis room?
23. Write a prescription for plasmapheresis.
24. Write a prescription for SLED.
25. Home Hemodialysis.
26. Problems encountered in dialyzing a Diabetic patient.

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