

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

July 2019 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 3 Hrs.

Paper - I

[Max. Marks: 100]

Applied Dialysis Technology

Q.P. Code: AHS-146

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the acute complications of Hemodialysis. What is Intradialytic hypotension? How to manage intradialytic hypotension? How to prevent intradialytic hypotension?
2. What are the complications of Peritoneal Dialysis? What is Peritoneal dialysis associated Peritonitis? How to diagnose and manage it?

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

3. What are the various anticoagulants used in Hemodialysis? What are the complications of Heparin?
4. Draw a line diagram of blood circuit of hemodialysis apparatus. Describe the same.
5. Enumerate and describe various safety alarms in dialysate circuit.
6. What are the types of dialyzers used in Hemodialysis? What is Kuf? What is KoA?
7. What is meant by adequacy of Hemodialysis? Write briefly about clinical and lab criteria.
8. Write briefly about Peritoneal Equilibration Test (PET)
9. What are the various types of Renal replace therapy (RRT) that can be performed by a regular dialysis machine? Describe briefly about SLED.
10. Indications for Heparin Free dialysis? How to minimize dialyser clotting in a patient on heparin free dialysis?
11. Write briefly about long term complications of hemodialysis.
12. Write a note on Hemodialysis machine disinfection.
13. Indications for removal of Peritoneal dialysis catheter?
14. What are the investigations done in a patient on hemodialysis? How frequently are they done?

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. What do you mean by priming volume of a dialyser?
16. What are the methods of sterilizing the dialyser?
17. What is surface area of F5 dialyser and F6 dialyser?
18. Enumerate 3 signs of dialyser clotting.
19. What are the normal value of Serum Creatinine, Serum Potassium, Blood urea?
20. When to withdraw a patient from hemodialysis who is undergoing hemodialysis due to acute kidney injury?
21. Name 3 organisms causing Peritonitis.
22. Name 3 drugs used to treat catheter related blood stream infection.
23. Indications for removal of tunneled hemodialysis catheter.
24. What is automated peritoneal dialysis?
25. Advantages of PD over HD.
26. Causes of chills during dialysis?

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

July/August 2019 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 3 Hrs.

Paper - II

[Max. Marks: 100]

Applied Dialysis Technology

Q.P. Code: AHS-147

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the steps of dialyzer reuse, its advantages and disadvantages.
2. What is CRRT? Enumerate the various CCRT therapies and its advantages and disadvantages.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

3. Slow Low efficiency dialysis (SLED)
4. Hemodialysis in pregnant patient.
5. Water treatment plant.
6. Online Dialysis.
7. Plasmapheresis.
8. Dialysis and Poisoning.
9. Dialysis in HbsAg, HCV and HIV patients.
10. MARS
11. Dialysis in Infant and Children.
12. Haemoperfusion.
13. Dialyzer reuses advantages and disadvantages.
14. Automated Peritoneal dialysis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Steps of dialyzer reprocessing.
16. Vaccination in Dialysis patients.
17. Use of Charcoal cartridge in water purification.
18. Aluminum toxicity.
19. Nutrition in Hemodialysis.
20. Normal Values for Serum Albumin, Calcium and Phosphorous.
21. Nocturnal dialysis.
22. How do you manage blood spill in dialysis room.
23. Home hemodialysis.
24. Precautions while dialyzing a post-operative patient.
25. Adequacy of dialysis.
26. Ultrafiltration coefficient.