Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Renal Dialysis Technology Degree Examination – MAR/APR 2017

Time: Three Hours Max. Marks: 100 Marks

APPLIED RENAL DIALYSIS TECHNOLOGY - I

(Revised Scheme)

Q.P. CODE: 2918

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

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. What are the various types of peritoneal dialysis (PD) catheters? What catheter is recently used? What complications are associated with PD catheter insertion?
2. Describe various steps of disinfection of hemodialysis machine. Is there any additional disinfectant measure taken for HD machine used in dialyzing HBsAg/HIV and HCV positive patients?
3. What are the various acute complications of hemodialysis? Briefly describe their management?

SHORT ESSAYS (Answer any Ten) 10 x 5 = 50 Marks

4. What are the various phosphate binders used in HD patients?
5. How do you give hepatitis B vaccination? What is the schedule normally followed?
6. Write briefly about common causes of hospitalization in dialysis patient.
7. How do you manage patients with infection of temporary access?
8. What are various causes of chills during hemodialysis?
9. What is ultrafiltration failure type 2?
10. What are the factors favouring clotting of the extracorporeal circuit?
11. What are the indications of heparin free dialysis?
12. Composition of CAPD solution
13. Complication of plasmapheresis
14. What is 3 pore model of peritoneal dialysis membrane?
15. What is icodextrin? What is its use?

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

16. Draw visual representation of common APD prescription.
17. What is sequential dialysis?
18. What is mass urea transfer co-efficient?
19. What is normal protein loss in one sessions of HD?
20. What is meant by ideal weight?
21. Name the water contaminants harmful to dialysis patient.
22. Name 2 insertion related complications of temporary vascular access.
23. Name 3 delayed complications of AVF.
24. The standard bicarbonate dialysis solution contains how many milimol of bicarbonate.
25. Name the common organism causing CAPD peritonitis.
26. What are the dialyzable antihypertensives?
27. What is tight heparin?

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III year B.Sc. Renal Dialysis Technology Degree Examination – APRIL 2017

Time: Three Hours Max. Marks: 100 Marks

APPLIED RENAL DIALYSIS TECHNOLOGY – II (Revised Scheme)

Q.P. CODE: 2919

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss the principles and modalities of water purification in haemodialysis. Enumerate the AAMI guidelines for quality of water for dialysis.
2. Discuss long term complications associated with haemodialysis.
3. Enumerate various types of continuous renal replacement therapies and describe two continuous renal replacement therapies modalities you know in detail including complications.

SHORT ESSAYS (Answer any Ten) 10 x 5 = 50 Marks

4. Enumerate various problems in diabetic dialysis patients.
5. Describe haemodiafiltration.
6. Amyloidosis in dialysis patients
7. Universal precautions in dialysis patients
8. Indications of Plasmapheresis
9. Dialysis as treatment for drug poisoning
10. Mention the advantages and disadvantages of dialyzer reuse.
11. Anemia in chronic kidney disease
12. Water softener
13. What are the precautions taken in dialyzing renal transplant patients?
14. Role of telemedicine in dialysis
15. Dialysis team

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

16. What is permissible colony count in RO water used for dialysis?
17. Name few cleaning agents in dialysis.
18. Name few dialyzable poisons.
19. Darbapoietin Alfa
20. What is β2 micro globulin?
21. Write three complications of long term dialysis.
22. Antidote of heparin and its dosage
23. Test for detecting liver disease
24. What are the causes of chest pain during haemodialysis?
25. Blood leak detector
26. Name few replacement solutions used in Plasmapheresis.
27. Recommended Ferritin and TSAT levels in CKD stage 5D

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