

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

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

B.Sc. Renal Dialysis Technology (RDT)

February / March -2018 Examination

Time : 3 Hrs.

[Max. Marks : 100]

PAPER –I

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 types, placement procedures and complications of peritoneal Dialysis catheters.
2. Various access used in Hemodialysis, their advantages, disadvantages and complications.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

3. When to initiate dialysis?
4. Mechanisms of solute transport.
5. Hemodialysis Apparatus.
6. Complications of central venous catheterization.
7. Preoperative evaluation for A V Fistula.
8. Causes and Management of High Venous pressure.
9. Laboratory tests done in Hemodialysis patients.
10. Intradialytic Hypotension.
11. Physiology of peritoneal Transport.
12. Newer CAPD solutions.
13. Double- bag system in PD.
14. Tidal Peritoneal dialysis (TPD).

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Elderly patients and dialysis.
16. Indices of Urea removal.
17. Urea inbound and rebound.
18. Water contaminants harmful to Dialysis patients.
19. Composition of a standard Hemodialysis solution.
20. Needle cannulation techniques
21. Dialysis solution circuit monitors.
22. Anatomy of peritoneal cavity.
23. Cyclers.
24. Types of chronic PD catheters.
25. Outflow failure in PD.
26. Acute peritoneal dialysis orders.

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 (Answer any Two)

2 X 10 = 20 Marks

1. Describe in detail about hemodialysis in patient with Acute Myocardial Infraction, HBsAg and Advanced Liver failure.
2. Dialysis in Acute Poisoning, Indications, precautions and complications.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Automated Peritoneal dialysis.
4. MARS.
5. Slow Low Efficiency dialysis (SLED)
6. Plasmapheresis – Indications and Procedure.
7. Precautions while dialyzing a pregnant patient.
8. Nocturnal dialysis.
9. Dialysis reuse.
10. CAPD – Continuous ambulatory peritoneal dialysis.
11. Dialyzer reactions – Types and Treatment.
12. Dialysis in children.
13. What is CRRT? Enumerate the various continues therapies.
14. Biocompatibility of membranes.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Home Hemodialysis.
16. Composition of Renalin.
17. Heparin Induced Thrombocytopenia (HIT)
18. Middle Molecules.
19. What is Fiber Bundle Volume?
20. Nutrition in dialysis patient.
21. Precautions while dialyzing immediate post operative patient.
22. Complications during Plasmapheresis.
23. Air Embolism.
24. Causes of hypotension during HD.
25. Sodium Modeling in HD.
26. Haemoperfusion.