

B.Sc. Allied Health Sciences Second Year Semester-III (CBCS Scheme)

August – 2018 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 3 Hrs.

Paper – I

[Max. Marks: 100]

Applied Anatomy & Physiology related to Dialysis Technology

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

(Use separate answer booklet for Section A & B)

Section – A

Applied Anatomy (50 Marks)

Q.P Code : RDT301CC

LONG ESSAY

2 X 10 = 20 Marks

1. Explain Kidney under the subheadings of location, parts, coverings and anterior relations (of both right and left kidney) (1+2+3+4=10 marks)
2. Describe the prostate gland under the following headings.
 1. External features
 2. Lobes
 3. Structure
 4. Applied aspects.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Brachial artery – origin, branches, relations and termination.
4. Great saphenous vein- Formation, tributaries, termination and clinical importance.
5. Lesser sac of peritoneum.
6. Development of kidney with anomalies.
7. Blood supply of kidney.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. List three cells of juxtaglomerular apparatus.
9. Trigone of Urinary bladder.
10. Name the subdivisions of male urethra.
11. Boundaries of epiploic foramen.
12. Tributaries of left renal vein.
13. Draw a neat labeled diagram of nephron.
14. Name any four branches of Femoral artery.

Section – B

Applied Physiology (50 Marks)

Q.P Code : RDT302CC

(Use separate answer booklet for Section-B)

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the mechanism of urine formation.
2. Describe the structure of nephron. List the differences between cortical and medullary nephron.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Autoregulation of renal blood flow.
4. Define renal clearance .Explain standard urea clearance.
5. Describe the renal tubular handling of sodium.
6. Describe be the Intrinsic pathway of coagulation.
7. Renal handling of Glucose.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Renal glycosuria.
9. Define Polyurea/ Anuria/ Oliguria.
10. Tubuloglomerular feedback.
11. Name three hormones secreted by the kidneys.
12. Normal clotting times and list two causes for increase in clotting time.
13. Hemophilia.
14. Acute nephritis.

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B.Sc. Renal Dialysis Technology (RDT)

Time : 2.30 Hrs.

[Max. Marks : 80]

Paper - III

Concept of Renal Disease and its Management

Q.P Code : RDT304CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Define nephrotic syndrome. What are its causes? Discuss complications of nephrotic syndrome.
2. Describe etiopathogenesis, clinical features and management of IgA Nephropathy.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Define acute renal failure. Mention causes of acute renal failure.
4. Define Nephritic syndrome. Name four causes of nephritic syndrome.
5. How do you classify UTI? What factors underlie complicated urinary tract infection?
6. Define chronic kidney disease? What are the stages of chronic kidney disease?
7. Describe briefly about dietary management of chronic kidney disease.
8. Describe briefly about storage and preservation of food.
9. Prevention of food adulteration act.
10. Describe principles of Plasmapheresis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Define superstition. Name two adversities borne out of superstition.
12. Describe briefly about composition of Family.
13. Name three diseases borne out of food habits.
14. Name three indications for initiation of dialysis in acute renal failure.
15. Name three antibiotics used in the treatment of UTI.
16. Name three organisms causing urinary tract infection.
17. Define microscopic hematuria and microalbuminuria.
18. Microbiologic contamination of food.
19. Name three causes of chronic kidney disease.
20. Mention three factors influencing food habits.
21. Phosphorus rich diet.
22. Define Bioimpedance, discuss its importance.

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

B.Sc. Allied Health Sciences Second Year Semester-III (CBCS Scheme)

August – 2018 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 2 Hrs.

Paper - II

[Max. Marks : 40]

Pharmacology Related To Dialysis Technology

Q.P Code : RDT303CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of angiotensin converting enzyme (ACE) inhibitors.

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Explain the pharmacological actions and uses of vitamin D.
3. Mention the phosphate binders and write their clinical uses.
4. Explain the basis and advantages of dialysis in the management of drug poisoning.
5. Explain mechanism of action, uses and adverse effects of furosemide.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Mention three indications for intravenous (IV) fluids in patients with dialysis.
7. Write the indications for Parenteral Iron therapy.
8. Write three indications for Erythropoietin.
9. Name three antihypertensive drugs that can be used safely in patients with chronic kidney disease (CKD).
10. Uses of Folic acid.
11. Name three vasopressors.

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