



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

B.Sc. Allied Health Sciences Second Year Semester-III

March 2026 Examination

B.Sc. Renal Dialysis Technology

Time: 2.30 Hrs.

Paper – I

[Max. Marks: 80]

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 (40 Marks)

Q.P Code : K3455

LONG ESSAY

1×10=10 Marks

1. Describe the kidney under the following headings
 - a) Gross features b) Relations c) Blood supply d) Applied aspect

SHORT ESSAY

3×5=15 Marks

2. Give detail description about great saphenous vein and its clinical importance
3. Describe the Trigone of urinary bladder
4. Ureter – course and its constrictions

SHORT ANSWERS

5×3=15 Marks

5. Carotid sinus
6. Lienorenal ligament
7. Medial cubital vein
8. Write in detail about Brachial artery
9. Draw a neat labelled diagram of microscopic structure of prostate

Section – B

Applied Physiology (40 Marks)

Q.P Code : K3456

(Use separate answer booklet for Section-B)

LONG ESSAY

1×10=10 Marks

1. Define Hemostasis and explain the extrinsic and intrinsic mechanism of blood coagulation in a flow chart.

SHORT ESSAY

3×5=15 Marks

2. List the differences between the cortical and juxta glomerular nephron
3. How much is the normal blood flow to the kidneys and mention the peculiarities of renal circulation
4. Name three cells of the JG Apparatus and give their function

SHORT ANSWERS

5×3=15 Marks

5. Name the buffer system of the body
6. Define GFR and give the normal value
7. What is Inulin Clearance? What is its clinical application?
8. Define and classify the renal failure
9. List any three functions of the Kidney

*** * ***



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year Semester- III

March/April 2026 Examination

B.Sc. Renal Dialysis Technology

Time: 2 Hrs.

Paper – III

[Max. Marks : 40]

Pharmacology Related Dialysis Technology

Q.P Code: K3460

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

I. LONG ESSAY

1 X 10 = 10 Marks

1. Classify diuretics. Explain mechanism of action and uses of frusemide?

II. SHORT ESSAY

3 X 5 = 15 Marks

2. List the crystalloids and colloids. Mention their uses and demerits.
3. Explain mechanism of action, uses and adverse effects of individual antiseptics.
4. Explain factors affecting drugs used in dialysis

III. SHORT ANSWERS

5 X 3 = 15 Marks

5. Mention three nephrotoxic drugs
6. Write three uses of folic acid
7. Mention two phosphate binders with their use
8. Explain mechanism of action and two uses of Vitamin D
9. Explain mechanism of action , one use and one adverse effects of erythropoietin

*** * ***



(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year Semester-III

March/April 2026 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 2.30 Hrs.

Paper – III

[Max. Marks: 80]

Concept of Renal Disease and its Management

Q.P Code: K3470

Your answers should be specific to the questions asked.

Draw neat, labelled diagrams wherever necessary.

I. LONG ESSAY

2 X 10 = 20 Marks

1. Define CKD. Mention the Stages of CKD and pathophysiology calcium and Phosphorous.
2. Define Acute Kidney Injury (AKI). Write about Classification and pathophysiology of AKI.

II. SHORT ESSAY

6 X 5 = 30 Marks

3. Asymptomatic Urinary abnormalities
4. Urinary Tract Infections – causes and treatment
5. Secondary Nephrotic Syndrome
6. Treatment of Minimal change Disease
7. Acute interstitial Nephritis
8. Food and Obesity

III. SHORT ANSWERS

10 X 3 = 30 Marks

9. What are the common causes of CKD?
10. Mention three causes of primary Nephrotic Syndrome
11. Mention three organisms causing UTI
12. Mention three drugs causing AKI
13. Name a few 'nephrotoxic' drugs.
14. Mention 3 Causes of Asymptomatic Hematuria.
15. Mention 3 Causes of Proteinuria.
16. Treatment of Minimal change Disease
17. Renal osteodystrophy
18. Anemia of CKD

*** * ***