



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

September 2022 Examination

B.Sc. Renal Dialysis Technology

Time: 3 Hrs.

Paper – I

[Max. Marks: 100]

Applied Pathology & Microbiology 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 Pathology (50 Marks)

Q.P Code : J4505

Long Essay

2 x 10 = 20 Marks

1. Classify glomerular diseases and describe etiopathogenesis and morphology of membranoproliferative glomerulonephritis.
2. Classify and describe the cystic diseases of kidney

Short Essay (Answer any three)

3 x 5 = 15 Marks

3. Normal Histology of nephron
4. Etiopathogenesis and morphology in pyelonephritis
5. Nephrosclerosis
6. Etiopathogenesis and morphology of Post Streptococcal Glomerulonephritis
7. Etiopathogenesis and morphology in acute tubular necrosis

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. 03 Causes for end stage renal diseases
9. Azotemia
10. Myeloma kidney
11. Microalbuminuria
12. Crystals in urine
13. Nephrotic syndrome
14. Bacterial peritonitis

Section – B

Applied Microbiology (50 Marks)

September 2021 Q.P Code : J4506

(Use separate answer booklet for Section-B)

Long Essay

2 x 10 = 20 Marks

1. Explain the pathogenesis and laboratory diagnosis of Hepatitis B virus infection. (5+5)
2. List the agents causing Catheter related blood stream infection. How to diagnose and prevent it. (3+2+5)

Short Essay (Answer any three)

3 x 5 = 15 Marks

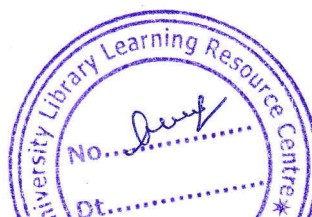
3. ZN staining
4. Blood culture
5. Standard precautions
6. Laboratory diagnosis of Hepatitis C virus infection
7. Opportunistic infections

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. Five moments of Hand Hygiene.
9. Name three bacteria causing Catheter associated urinary tract infection.
10. Significant bacteriuria
11. Management of mercury spill.
12. Post exposure Prophylaxis
13. Name three cell wall acting antibiotics
14. Hepatitis B vaccine.

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B.Sc. Allied Health Sciences Second Year (Semester-IV)
September 2022 Examination
B.Sc. Renal Dialysis Technology

Time : 2 Hrs.

[Max. Marks : 40]

Paper-II

PHARMACOLOGY RELATED TO DIALYSIS TECHNOLOGY

Q.P Code : J4510

*Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.*

Long essay

1 × 10 = 10 Marks

1. Mention hemodialysate composition. Explain the advantages and disadvantages of each (4+3+3)

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Mention potassium binding resins and explain their mechanism of action, uses and drug interactions (1+2+1+1)
3. Explain mechanism of action, uses and adverse effects of heparin (1.5+2+1.5)
4. List the antiseptics and write their clinical uses (2+3)
5. Explain the components of fluid used in peritoneal dialysis (5)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Define and mention **two** disinfectants
7. Mention **three** advantages of raviparin
8. List **three** antiplatelet agents and write three uses
9. Mention **two** uses and **one** adverse effect of bivalirudin
10. Mention **three** steps involved in catheter care in dialysis
11. Mention **three** uses of vitamin K





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B.Sc. Renal Dialysis Technology (RDT)

Paper - III

[Max. Marks : 80]

Time : 2.30 Hrs.

Concept of Renal Disease and its Management

Q.P Code : J4520

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

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the various renal tumors and write briefly on Renal Cell Carcinoma
2. Classify the cystic diseases of the kidney. Write briefly on ADPKD

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. HELP syndrome
4. Causes of Obstructive uropathy and its management
5. Medullary sponge kidney
6. Wilms Tumor
7. Preeclampsia of pregnancy
8. Renal Tubular Acidosis
9. Classification of Nutrients
10. Physiological changes of kidney in pregnancy

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three Congenital diseases of kidney
12. Horseshoe Kidney
13. Name three water soluble vitamins
14. Diet in Renal stone
15. Name three fat soluble vitamins
16. Alport syndrome
17. ARPKD
18. Name three extra renal manifestations of ADPKD
19. Name three sources of drinking water
20. Medullary cystic disease of the kidney
21. Renal Rickets
22. Vitamin D

