

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

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

September 2021 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 cystic diseases of kidney and write a note on polycystic kidney disease
2. Classify glomerular diseases and describe etiopathogenesis and morphology of membranous nephropathy

Short Essay (Answer any three)

3 x 5 = 15 Marks

3. Describe etiopathogenesis and morphology of nephrosclerosis
4. Describe etiopathogenesis and morphology of diabetic nephropathy
5. Describe etiopathogenesis and morphology of pyelonephritis
6. Describe etiopathogenesis and morphology of post streptococcal glomerulonephritis
7. Congenital abnormalities in kidney

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. Bence Jones Proteins
9. Crystals in urine
10. Nephritic syndrome
11. Glycosuria
12. Types of renal calculi
13. Sclerosing peritonitis
14. Renal changes in pregnancy

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. List the causes and common organisms causing Catheter associated urinary tract infection (CAUTI). How to diagnose and prevent it.(2+3+5)
2. Enumerate the organisms causing Opportunistic Infections. Write about the clinical features and laboratory diagnosis of Candida albicans.(3+2+5)

Short Essay (Answer any three)

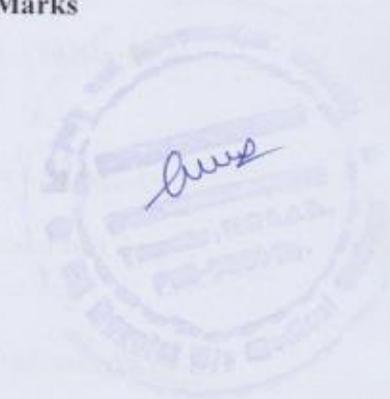
3 x 5 = 15 Marks

3. Laboratory diagnosis of Hepatitis C virus infection
4. Preventive measures for Catheter related blood stream infection
5. Laboratory diagnosis of HIV
6. Needle stick injury.
7. Blood culture

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. Steps of Hand Hygiene
9. Personal Protective equipments.
10. Hepatitis B vaccine.
11. Mention three gram negative bacilli
12. Mercury spill management
13. Segregation of biomedical waste
14. Name two acid fast bacilli





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September 2021 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. Explain the differences between warfarin and heparin

Short essay (Answer any three)

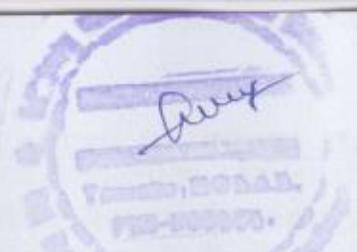
3 × 5 = 15 Marks

2. Mention the drugs used in hyperkalemia. Explain mechanism of action and **two** drug interactions of calcium polystyrene sulfonate (2+2+1)
3. Explain the role of bicarbonates as buffer in dialysis (5)
4. Mention techniques to access hemodialysis. List the advantages and disadvantages of any **two** techniques (2+3)
5. Explain the steps involved in catheter care in dialysis (5)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Define and mention **two** antiseptics and write **two** uses
7. Mention **three** low molecular weight heparins and write **three** advantages over heparin
8. List **three** antiplatelet drugs
9. Mention **two** uses and **one** contraindication to lepirudin
10. Mention **three** uses of vitamin K
11. Mention **three** components present in the fluid used for peritoneal dialysis


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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 labelled diagrams wherever necessary.*

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the various renal tumors and write briefly on Renal Cell Carcinoma
2. Discuss the renal changes in pregnancy and write briefly on Preeclampsia

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. HELP syndrome
4. Renal Cell carcinoma
5. Medullary sponge kidney
6. Wilms Tumor
7. ADPKD
8. Renal Tubular Acidosis
9. Cystic diseases of the kidney
10. Classification of Nutrients

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three Congenital diseases of kidney
12. Name three inherited diseases of the kidney
13. Name three fat soluble vitamins
14. Diet in Renal stone
15. Name three water soluble vitamins
16. Alport syndrome
17. Uric Acid stone
18. Name three extra renal manifestations of ADPKD
19. Obstructive uropathy
20. Name three mineral required for a healthy person
21. Renal Rickets
22. Medullary cystic disease of the kidney