

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

March 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 post streptococcal glomerular nephritis
2. Describe physical and chemical examination of urine

Short Essay (Answer any three)

3 x 5 = 15 Marks

3. Describe etiopathogenesis and morphology of acute tubular necrosis
4. Nephrosclerosis
5. Cystic diseases of kidney
6. Describe etiopathogenesis in end stage renal disease
7. Describe etiopathogenesis and morphology of tubercular pyelonephritis

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. Azotemia
9. Bence Jones Protein
10. Dialysis induced renal diseases
11. Kimmelsteil Wilson disease
12. Nephritic syndrome
13. Urine findings in urinary tract infection
14. Sclerosing peritonitis

Section – B

Applied Microbiology (50 Marks)

Q.P Code : J4506

(Use separate answer booklet for Section-B)

Long Essay

2 x 10 = 20 Marks

1. Explain the modes of transmission and laboratory diagnosis of Human immunodeficiency virus (HIV).
2. List the microbes causing Urinary Tract Infections. Write in detail about the sample collection, transport and laboratory diagnosis of Urinary Tract Infections.

Short Essay (Answer any three)

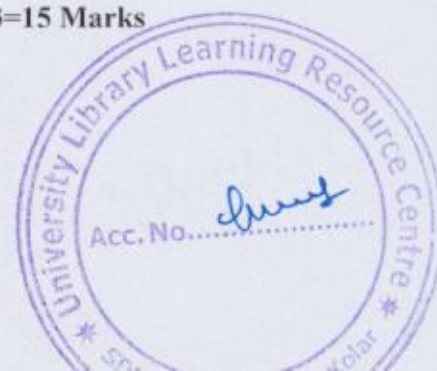
3 x 5=15 Marks

3. Gram Stain
4. Blood culture
5. Mention methods of antibiotic sensitivity testing. Elaborate on Disc diffusion method
6. Biomedical waste management
7. Laboratory diagnosis of Candida

Short Answers (Answer any five)

5 x 3=15 Marks

8. Mention three gram negative bacilli
9. Steps of Hand hygiene
10. Microbiological testing of dialysis water.
11. Modes of transmission of Hepatitis C virus
12. Mention the PPE used by the dialysis technician during dialysis.
13. Name hepatotropic viruses.
14. Hepatitis B vaccines



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

B.Sc. Allied Health Sciences Second Year (Semester-IV)
March 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. Classify anticoagulants. Explain mechanism of action, uses and adverse effects of warfarin (4+2+2+2)

Short essay (Answer any three)

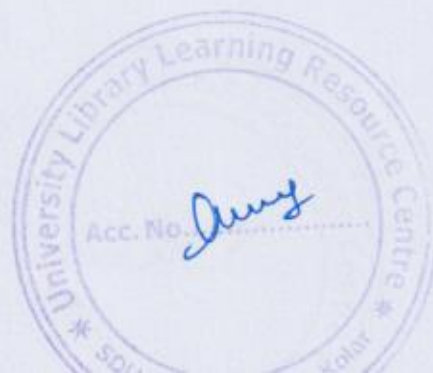
3 × 5 = 15 Marks

2. Explain mechanism of action and technique of administration of potassium exchange resin (2.5+2.5)
3. Mention the dialysate composition in hemodialysis. Explain advantages and disadvantages of dialysate sodium (3+2)
4. Explain **two** techniques of approach in hemodialysis and write their advantages (2.5+2.5)
5. Explain mechanism of action, uses and adverse effects of aspirin (1.5+2+1.5)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** antiseptics and write **three** uses
7. Mention **three** advantages of low molecular weight heparin
8. List **three** steps involved in catheter care in dialysis
9. Explain mechanism of action, write **one** use and **one** adverse effect of protamine sulfate
10. Mention **three** complications of peritoneal dialysis
11. Mention **three** disinfectants and write **three** uses



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

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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 : J4520

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss the etiopathogenesis of renal stones and its management
2. Reno vascular Hypertension- pathophysiology and its management

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Renal Cell carcinoma
4. HELP syndrome
5. Obstructive uropathy
6. ADPKD
7. Classify the cystic diseases of the kidney
8. Physiological changes of kidney in Pregnancy
9. Fanconi Syndrome
10. Acquired Cystic kidney disease

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three types of renal stones
12. Name three Congenital diseases of kidney
13. Name three tumors of the Urinary system
14. Renal Tubular Acidosis
15. Classification of Nutrients
16. Name three extra renal manifestations of ADPKD
17. Name three fat soluble vitamins
18. Horseshoe Kidney
19. Diet in Renal stone
20. Medullary sponge kidney
21. Struvite Stones
22. Wilms Tumor

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