

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

February 2019 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 disease of kidney and describe polycystic kidney disease
2. Classify glomerulonephritis and describe morphology of diabetic nephropathy

Short Essay (Answer any three)

3 x 5 = 15 Marks

3. Post Streptococcal glomerulonephritis
4. Urine microscopy
5. Nephrosclerosis
6. Urolithiasis – Types and etiopathogenesis
7. Etiopathogenesis and morphology of pyelonephritis

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. Azotemia
9. End Stage renal disease
10. Renal changes in pregnancy
11. Bence Jones Proteins
12. Hematuria
13. Dialysis induced renal changes
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. Enumerate the organisms causing Opportunistic Infections. Write about the clinical features and laboratory diagnosis of Candida albicans. (3+2+5)
2. List the microbes causing Urinary Tract Infections. Write in detail about the sample collection, transport and laboratory diagnosis of Urinary Tract Infections.(2+3+5)

Short Essay (Answer any three)

3 x 5 =15 Marks

3. Modes of transmission and Lab diagnosis of Hepatitis B
4. Pathogenesis of peritonitis in peritoneal dialysis patient.
5. Blood culture
6. Needle stick injury.
7. Segregation of waste and its importance

Short Answers (Answer any five)

5 x 3 =15 Marks

8. Name any six organisms causing Blood Borne Infections.
9. Mention the PPE used by the dialysis technician during dialysis.
10. Mention three gram negative bacilli
11. Sample collection for Microbiological testing of dialysis water.
12. Mention the modes of transmission of HIV
13. Steps of Hand hygiene
14. Name three Health care associated infections.

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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-IV)
February 2019 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 the mechanism of action, instructions to be followed for administration and clinical uses of calcium resonium (2+1.5+1.5)
3. Explain mechanism of action, uses and adverse effects of aspirin (1.5+2+1.5)
4. Mention advantages and disadvantages of external arteriovenous shunt and internal arteriovenous fistula (2.5+2.5)
5. Explain the principle of peritoneal dialysis and mention factors affecting it (2+3)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** disinfectants and write **three** uses
7. Mention **three** uses of vitamin K
8. Mention **three** steps involved in catheter care in dialysis
9. Mention **two** uses and **one** adverse effect of bivalirudin
10. Mention **three** advantages of Continuous Ambulatory Peritoneal Dialysis (CAPD)
11. Mention **three** dialysate components

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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-IV)

February 2019 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 : 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. Classify the cystic diseases of the kidney. Write briefly on ADPKD

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. HELP syndrome
4. Renal Cell carcinoma
5. Medullary sponge kidney
6. Wilms Tumor
7. Physiological changes in pregnancy
8. Renal Tubular Acidosis
9. Fanconi Syndrome
10. Classification of Nutrients

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three Congenital diseases of kidney
12. Horseshoe Kidney
13. Stag Horn Calculus
14. Diet in Renal stone
15. Micronutrients
16. Wilms Tumor
17. ARPKD
18. Name three extra renal manifestations of ADPKD
19. Name three water soluble vitamins
20. Name three fat soluble vitamins
21. Renal Rickets
22. Vitamin D

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