

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

July/August 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 glomerular diseases and describe etiopathogenesis and morphology of Post Streptococcal glomerulonephritis
2. Describe renal changes in hypertension

Short Essay (Answer any three)

3 x 5 = 15 Marks

3. Polycystic kidney disease
4. Pyelonephritis
5. Renal changes in pregnancy
6. Renal changes in diabetes mellitus
7. Renal calculi

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. Tubercular pyelonephritis
9. Morphology of hydronephrosis
10. Sclerosing peritonitis
11. Azotemia
12. Casts in urine
13. Proteinuria
14. Nephrotic syndrome

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. Name hepatotropic viruses? write briefly on laboratory diagnosis of Hepatitis C Virus (3+7)
2. Name various organisms causing urinary tract infection. Discuss the lab diagnosis of urinary tract infection .(5+5)

Short Essay (Answer any three)

3 x 5= 15 Marks

3. Biomedical waste management
4. Gram stain
5. Blood culture
6. Laboratory diagnosis of Human immunodeficiency virus
7. Microbiological testing of dialysis water

Short Answers (Answer any five)

5 x 3=15 Marks

8. Hepatitis B vaccines.
9. Mention three gram negative bacilli
10. Modes of transmission of Hepatitis B virus
11. Mention the PPE used by the dialysis technician during dialysis.
12. Name two acid fast bacilli.
13. Steps of Hand hygiene
14. Name three cell wall acting antibiotics

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B.Sc. Allied Health Sciences Second Year Semester-IV
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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 adverse effects. (1+2+1+1)
3. Explain mechanism of action, uses and adverse effects of warfarin (1.5+2+1.5)
4. Mention techniques to access hemodialysis. List the advantages and disadvantages of any **two** techniques (2+3)
5. Explain the components in the fluid used for peritoneal dialysis (5)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Define antiseptic and write **two** examples
7. Mention **three** advantages of daltaparin over heparin
8. Mention **three** disinfectants and **three** uses
9. Mention **two** uses and **one** adverse effect of lepirudin
10. Explain mechanism of action, **one** use and **one** adverse effect of protamine sulphate
11. Mention **three** uses of aspirin

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

July / August 2019 Examination

B.Sc. Renal Dialysis Technology

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)

6 X 5 = 30 Marks

3. Renal Cell carcinoma
4. HELP syndrome
5. Obstructive uropathy
6. ADPKD
7. Classification of Nutrients
8. Physiological changes of kidney in Pregnancy
9. Drinking water sources and storage
10. Cystic diseases of the kidney

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. Diet in Renal stone
16. Name three Minerals required for a health person
17. Name three vitamins
18. Horseshoe Kidney
19. Renal Rickets.
20. Medullary sponge kidney
21. Struvite Stones
22. Wilms Tumor

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