

B.Sc. Renal Dialysis Technology Second Year Semester-IV

February 2020 Examination

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 renal vascular diseases and describe etiopathogenesis and gross and morphology of kidney in nephrosclerosis
2. Classify glomerular diseases and describe etiopathogenesis and morphology of membranoproliferative glomerulonephritis

Short Essay (Answer Any Three)

3 X 5 = 15 Marks

3. Polycystic Kidney disease
4. Renal Calculi
5. Renal changes in diabetes mellitus
6. Describe etiopathogenesis and morphology in hydronephrosis
7. Describe etiopathogenesis and morphology Acute tubular necrosis

Short Answers (Answer Any Five)

5 X 3 = 15 Marks

8. Glycosuria
9. Renal changes in dialysis
10. Sclerosing peritonitis
11. Nephrotic syndrome
12. Minimal change disease
13. Uremia
14. Bence Jones Proteins

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 pathogenesis and laboratory diagnosis of Human immunodeficiency virus (5+5)
2. List the causes and common organisms causing Catheter associated urinary tract infection (CAUTI). How to diagnose and prevent it.(3+2+5)

Short Essay (Answer Any Three)

3 X 5= 15 Marks

3. Microbiological testing of dialysis water.
4. Blood culture - Sample collection
5. Hepatitis B virus - Pathogenesis and laboratory diagnosis.
6. Laboratory diagnosis of Hepatitis C virus infection
7. Biomedical Waste Management.

Short Answers (Answer Any Five)

5 X 3= 15 Marks

8. Steps of Hand Hygiene.
9. Name three bacteria causing Catheter related blood stream infection
10. Name two acid fast bacilli.
11. Management of mercury spill.
12. Post exposure Prophylaxis
13. Personal Protective equipments
14. Name three Opportunistic fungi .

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**B.Sc. Renal Dialysis Technology Second Year Semester-IV
February 2020 Examination**

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 heparin (4+2+2+2)

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Mention potassium exchange resins. Explain the instructions to be followed for administration and clinical uses for these resins (2+2+1)
3. Explain advantages and disadvantages of dialysate sodium and phosphate (2.5+2.5)
4. Explain the steps in preventing exit site infection during dialysis (5)
5. Explain the factors affecting peritoneal dialysis (5)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** disinfectants and write **three** uses.
7. Explain mechanism of action and **one** use and **one** adverse effect of aspirin.
8. Mention **three** complications of peritoneal dialysis.
9. Mention **three** uses of vitamin K.
10. Explain mechanism of action and **two** uses of clopidogrel.
11. Mention **three** uses of povidone iodine.

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B.Sc. Renal Dialysis Technology Second Year Semester-IV

February 2020 Examination

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. Discuss the renal changes in pregnancy and write briefly on Preeclampsia

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. HELP syndrome.
4. Renal Cell carcinoma.
5. Medullary sponge kidney.
6. Wilms Tumor.
7. ADPKD.
8. Renal Tubular Acidosis.
9. Fanconi Syndrome
10. Acquired cystic disease of the kidney.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three Congenital diseases of kidney.
12. Horseshoe Kidney.
13. Nephronophthisis.
14. Diet in Renal stone.
15. Name three water soluble Vitamins.
16. Alport syndrome.
17. ARPKD.
18. Name three extra renal manifestations of ADPKD.
19. Name three fat soluble vitamins.
20. Name three inherited disease of the kidney.
21. Renal Rickets.
22. Name three mineral required for a healthy person.

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