

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

August – 2018 Examination

B.Sc. Renal Dialysis Technology (RDT)

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 : RDT401CC

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the types of end stage renal disease. Discuss the etiopathogenesis and morphology of end stage renal disease.
2. Mention the types of renal vascular disorders. Discuss the pathogenesis and morphology of malignant nephrosclerosis.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Mention causes and morphology of acute tubular necrosis.
4. Minimal change disease.
5. Causes and lab-diagnosis of nephrotic syndrome.
6. Pathology of chronic pyelonephritis.
7. Discuss the etio pathogenesis and morphology of post streptococcal glomerulonephritis.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Mention the types of developmental anomalies of the kidney.
9. Pathology of dialysis associated cystic disease of kidney.
10. Causes of obstructive uropathy.
11. Causes of renal infarcts.
12. Sclerosing peritonitis.
13. Types of thrombotic micro angiopathies.
14. Kimmelstein - Wilson syndrome

Section – B

Applied Microbiology (50 Marks)

Q.P Code : RDT402CC

(Use separate answer booklet for Section-B)

LONG ESSAY

2 X 10 = 20 Marks

1. Define opportunistic infections. Write the pathogenesis and laboratory diagnosis of infections by Candida.
2. Explain the pathogenesis and laboratory diagnosis of Hepatitis B viral infection.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Standard Precautions.
4. Laboratory diagnosis of HIV infection.
5. Pyelonephritis: Pathogenesis and Laboratory diagnosis.
6. Sample collection for blood culture.
7. Hepatitis C virus: Pathogenesis and laboratory diagnosis.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Management of blood spill.
9. Pathogenesis of peritonitis in peritoneal dialysis patient.
10. Name three bacteria causing urinary tract infection.
11. Microbiological testing of dialysis water.
12. Cytomegalovirus infections in renal transplant recipients.
13. Role of vaccines in transplant patients.
14. Mention three different methods of urine collection in suspected UTI.

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B.Sc. Allied Health Sciences
Second Year Semester-IV CBCS Scheme
August 2018 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 2 Hrs.

Paper - II

[Max. Marks : 40]

Pharmacology related to Dialysis Technology
Q.P Code :RDT403CC

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. Classify anticoagulants. Explain mechanism of action, therapeutic uses and adverse effects of Heparin.

SHORT ESSAY(Answer any Three)

3X 5 = 15 Marks

2. Mention five antiplatelet agents. Write their mechanism of action.
3. Potassium exchange resins- examples, indications and adverse effects.
4. Mention the types and indications of haemodialysis concentrates.
5. Mention four disinfectants. Write three conditions where disinfectants are used.

SHORT ANSWERS(Answer any five)

5 X 3 = 15 Marks

6. Three differences between haemodialysis and peritoneal dialysis.
7. Explain the mechanism of action and one use of hydrogen peroxide.
8. Explain the mechanism of action and one use of protamine sulphate.
9. Mention composition of peritoneal dialysate.
10. Advantages of low molecular weight heparin over heparin.
11. Explain the mechanism of action and one use of Iodophores.

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

August – 2018 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 2.30 Hrs.

[Max. Marks : 80]

Paper - III

Concept of Renal Disease and its Management

Q.P Code : RDT404CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe definition, etiopathogenesis and clinical manifestations of Renovascular. Hypertension.
2. Describe Pathogenesis, clinical manifestations and general treatment of Nephrolithiasis.

SHORT ESSAY(Answer any Six)

6X 5 = 30 Marks

3. Risk factors for preeclampsia.
4. Congenital Nephritic Syndrome of Finnish Type.
5. Nephrocalcinosis.
6. How do you diagnose a case of Urinary Tract Obstruction?
7. High turnover Renal bone disease.
8. Monitoring and Treatment of Malnutrition in Dialysis patients.
9. Methods to purify Ground Water for Drinking purpose.
10. Role of Fat soluble Vitamins in Dialysis patients.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Three drugs used to Treat preeclampsia.
12. Three causes of hematuria.
13. Three causes of nephritic Syndrome.
14. Three indications for parathyroidectomy.
15. Three water contaminants causing Anemia in dialysis patients.
16. Three water soluble vitamins.
17. Treatment of Hypokalemia.
18. Normal serum levels of PTH, calcium and Vitamin D.
19. Three Erythropoietin stimulating agents.
20. Percentage of distribution of proteins, carbohydrates and fat in healthy adult food.
21. How water is distributed in our body?
22. Dry weight.

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