



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

October 2023 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 2.30 Hrs.

[Max. Marks : 80]

Concept of Renal Disease and its Management

Q.P Code: K4490

Your answers should be specific to the questions asked.

Draw neat, labelled diagrams wherever necessary.

LONG ESSAY

2*10=20 Marks

1. Describe pathogenesis of hypertension and its management.
2. Define obstructive uropathy, and explain causes, pathogenesis, and its management.

SHORT ESSAY

6*5=30 Marks

3. Hereditary renal disorders.
4. Autosomal dominant polycystic kidney disease.
5. Amyloidosis.
6. Potters' syndrome.
7. Wilms tumor.
8. Physiological changes of kidney in pregnancy

SHORT ANSWERS

10*3=30 Marks

9. Normal serum levels of creatinine, urea, potassium.
10. Renal rickets.
11. Name three types of renal stones.
12. Hydronephrosis.
13. Reflux nephropathy.
14. Vitamin -D
15. Stag-horn calculus
16. Horseshoe kidney
17. Ectopic kidney
18. Name three sources of drinking water.

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BSc Allied Health Sciences Second Year (Semester IV)

October 2023 Examination

BSc Renal Dialysis Technology (RDT)

Time: 2.30 hrs

(Max marks 80)

Sec-A

Applied Pathology (40 Marks)

Q.P.Code: K4485

Your answers should be specific to the questions asked

Draw neat labeled diagram wherever necessary

Long Essay

1x10 = 10 Marks

1. Describe physical and chemical examination of urine

Short Essay

3x5 = 15 Marks

2. Describe etiopathogenesis and morphology diabetic nephropathy
3. Describe etiopathogenesis and morphology post streptococcal glomerulonephritis
4. Casts and crystals in urine

Short Answers

5x3 = 15 Marks

5. Nephrotic syndrome
6. Sclerosing peritonitis
7. Horse shoe kidney
8. Bence Jones Proteins
9. Renal changes in pregnancy

Sec-B

Applied Microbiology

Q.P Code : K4486

LONG ESSAY

1 X 10 = 10 Marks

1. Describe the mode of transmission , clinical features and laboratory diagnosis of Hepatitis B virus infection .(2+3+5)

SHORT ESSAY

3 X 5 = 15 Marks

2. Describe the laboratory diagnosis of Pulmonary tuberculosis.
3. Describe the infection control measures to prevent Catheter associated Urinary tract infection (CAUTI)
4. Describe the clinical features and laboratory diagnosis of Cryptococcosis .(2.5+2.5)

SHORT ANSWERS

5 X 3 = 15 Marks

5. Segregation of Biomedical waste.
6. Enumerate the Hepatotropic viruses.
7. Enumerate the personal protective equipment used in blood spill management.
8. Five moments of Hand Hygiene.
9. Enumerate the microbial agents causing blood stream infection.

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

October 2023 Examination

B.Sc. Renal Dialysis Technology

Paper – I

[Max. Marks: 100]

Time: 3 Hrs.

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 diseases and describe etiopathogenesis and morphology of acute tubular necrosis
2. Describe physical and chemical examination of urine

Short Essay (Answer any three)

3 x 5 = 15 Marks

3. Describe etiopathogenesis and morphology Nephrosclerosis
4. Describe etiopathogenesis and morphology pyelonephritis
5. Describe etiopathogenesis and morphology diabetic nephropathy
6. Describe etiopathogenesis and morphology post streptococcal glomerulonephritis
7. Casts and crystals in urine

Short Answers (Answer any five)

5 x 3 = 15 Marks

8. Nephrotic syndrome
9. Uremia
10. Hematuria
11. Sclerosing peritonitis
12. Horse shoe kidney
13. Bence Jones Proteins
14. Renal changes in pregnancy

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. What are the modes of transmission of Hepatitis B. Mention the laboratory diagnosis of Hepatitis B virus infection.(5+5)
2. List the causes and common organisms causing Catheter related blood stream infection (CRBSI). How to diagnose and prevent it.

Short Essay (Answer any three)

3 x 5=15 Marks

3. Hepatitis C virus- Pathogenesis and laboratory diagnosis.
4. Laboratory diagnosis of Candida
5. Gram Stain
6. Urine culture
7. Mention the causative agents and risk factors causing peritonitis in peritoneal dialysis patient.

Short Answers (Answer any five)

5 x 3= 15 Marks

8. Microbiological testing of dialysis water.
9. Management of blood spill.
10. Steps Of Hand washing
11. Segregation of Biomedical Waste
12. Modes of transmission of Human immunodeficiency virus.
13. Name 2 acid fast bacilli.
14. Name three Opportunistic fungi.