

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

**August – 2016 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 : AHS-138**

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Classify renal diseases, Write briefly on congenital abnormalities of urinary system.
2. Discuss the pathology of urinary tract infections. Write briefly on chronic pyelonephritis.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

3. Causes and pathology of end stage renal diseases.
4. Causes and types of glomerular diseases
5. Kidney changes in hypertension.
6. Renal vascular diseases.
7. Tuberculous pyelonephritis

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

8. Sclerosing peritonitis
9. Renal changes in diabetes mellitus
10. Proteinuria.
11. List tubulointerstitial diseases
12. Polycystic kidney diseases
13. Bacterial peritonitis
14. Pathology of kidney in pregnancy

**Section – B**

**Applied Microbiology (50 Marks)**

**Q.P Code : AHS-139**

***(Use separate answer booklet for Section-B)***

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. List the causes and common organisms causing Catheter related blood stream infection (CRBSI).  
How to diagnose and prevent it.
2. Write the mode of infection of Human immunodeficiency virus (HIV) and write briefly on laboratory diagnosis of Human immunodeficiency virus.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

3. Urine culture.
4. Blood culture.
5. Universal precautions.
6. Hepatitis C virus.
7. Opportunistic infection.

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

8. Three organism causing Urinary tract infection (UTI).
9. Hepatitis B vaccine.
10. Modes of transmission of Hepatitis B virus (HBV).
11. Supercarrier in Hepatitis B virus (HBV).
12. Significant bacteriuria.
13. Post exposure prophylaxis.
14. Name three tests for Antibiotic sensitivity testing.

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

**August – 2016 Examination**

**B.Sc. Renal Dialysis Technology (RDT)**

**Time : 2.30 Hrs.**

**Paper – II**

**[Max. Marks : 80]**

**Pharmacology Related to Dialysis Technology**

**Q.P. Code : AHS-136**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Classify anticoagulants. Add a note on low molecular weight heparins.
2. What is peritoneal dialysis? Write the precautions to be taken while doing peritoneal dialysis.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Uses and adverse effects of potassium binders.
4. Uses of heparin.
5. Adverse reactions to peritoneal dialysis.
6. Uses of sodium hypochlorite.
7. Indications and adverse effects of acid bicarbonate hemodialysis concentrate.
8. Formalin – role as disinfectant.
9. Mechanism of action of heparin.
10. Composition of peritoneal dialysis fluid.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Uses of protamine sulfate.
12. Name three adverse effects of Formalin.
13. Treatment of acute heparin overdose.
14. Mechanism of action of potassium binders.
15. Name three heparinoids.
16. Write three differences between heparin and LMW heparin.
17. Pharmacokinetics of LMW heparin.
18. Name three hemodialysis concentrates.
19. Adverse effects of hydrogen peroxide.
20. Adverse effects of sodium hypochlorite.
21. Mode of administration of potassium exchange resins.
22. Name three direct thrombin inhibitors.

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

**August – 2016 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: AHS-137**

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

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Nutritional assessment in CKD patients.
2. Causes of hereditary nephritis. Explain in detail about Alport's syndrome.

**SHORT ESSAY (Answer any Six)**

**6X 5 = 30 Marks**

3. Gitelman's syndrome.
4. Major risk factors for preeclampsia.
5. Treatment and renovascular hypertension and ischemic nephropathy.
6. Renal osteodystrophy.
7. Types of renal stones.
8. Acute fatty liver of pregnancy.
9. Central diabetes incipidus.
10. Role of ACE inhibitors in renal disease.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Normal serum levels of S.calcium, phosphorus, IPTH level.
12. Three essential fatty acids.
13. Three drugs used to treat preeclampsia.
14. Three most common causes of CKD in india.
15. Dent's disease.
16. Post obstructive diuresis.
17. Phosphorus rich foods.
18. Treatment of secondary hyperparathyroidism.
19. Hypercalcemia causes.
20. Benign prostatic hypertrophy.
21. Three indication for initiation of emergency haemodialysis.
22. Three essential micronutrients.

**\* \* \***