

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
(A DEEMED TO BE UNIVERSITY)

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

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

February / March -2018 Examination

Time : 3 Hrs.

[Max. Marks : 100]

**PAPER – I**

**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-144**

**(Use separate answer booklet for Section A & B)**

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Describe the pathogenesis of diabetic nephropathy. Add a note on complications of diabetic nephropathy.
2. Classify tubule-interstitial diseases. Discuss the etiopathogenesis of chronic pyelonephritis.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

3. Polycystic kidney disease.
4. Anemia in kidney disease.
5. Post streptococcal glomerulonephritis.
6. Renal artery stenosis.
7. What is peritonitis. Add a note on bacterial peritonitis.

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

8. List types of renal calculi.
9. Proteinuria.
10. What is hematuria. List three causes of hematuria.
11. Glycosuria.
12. List renal lesions in patients on long term dialysis.
13. Morphology of minimal change disease. .
14. What is nephrotic syndrome.

**Section – B**

**Applied Microbiology (50 Marks)**

**Q.P Code: AHS-145**

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

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Describe the morphology, mode of transmission of HIV. Add a note on its laboratory diagnosis.
2. Classify Hepatotropic viruses. Describe the pathogenesis and lab diagnosis of Hepatitis C virus.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

3. Universal precautions.
4. Disinfection of dialysis units.
5. Discuss the opportunistic infections in dialysis patients.
6. Sampling methodologies for culture and sensitivity.
7. Laboratory diagnosis of urinary tract infections.

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

8. Modes of transmission of Hepatitis B infection.
9. Hepatitis A virus.
10. What quality analysis for dialysis.
11. Enumerate microorganisms causing catheter related blood stream infection.
12. Draw a neat labeled diagram of HIV.
13. Prophylaxis of HBV infection.
14. Prognostic Markers for HIV infection.

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**Renal Dialysis Technology (RDT)**

February / March – 2018 Examination

Time : 2.30 Hrs.

[Max. Marks : 80]

**PAPER –III**

**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 (Answer any Two)**

**2 X 10 = 20 Marks**

1. Chronic kidney disease-mineral bone disorder.
2. Classify nephrotic syndrome. Explain in detail about membranous glomerulonephritis.

**SHORT ESSAY (Answer any Six )**

**6X 5 = 30 Marks**

3. Pregnancy associated renal disease.
4. Ischemic nephropathy.
5. Nephrogenic diabetes insipidus.
6. Intravenous urogram.
7. Management of renal stone disease.
8. Treatment of renal cell carcinoma.
9. Pellegra.
10. Vit A deficiency.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Cystinosis.
12. Normal level of blood urea, S. creatinine and S.potassium.
13. Treatment of hyperphosphemia.
14. Three oral drugs used to treat diabetes mellitus.
15. Three types of hypertension in pregnancy.
16. Barter's syndrome.
17. Three causes of congenital urinary tract obstruction.
18. Three drugs used to treat urinary tract infection.
19. Three inhibitors of stone formation.
20. Bioimpedence.
21. Three classes of diuretics.
22. Three water contaminants harmful to dialysis patients.

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