Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 80 Marks

Concept of Renal Diseases – (RS)

Q.P. CODE: 1247

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss about renal vascular disorders and hypertension associated renal diseases.
2. Explain in detail “Tumours of kidney”.
3. Elaborate Nephrotic and Nephritic syndrome

SHORT ESSAYS (Answer any Six) 6 x 5 = 30 Marks

4. Causes of chronic kidney diseases
5. Pre-eclampsia
6. Elaborate causes, management and prevention urinary tract infections
7. Congenital abnormalities of urinary tract
8. Causes of anaemia in chronic kidney diseases (CKD) patients
9. Uremic encephalopathy
10. Mineral bone diseases in chronic kidney diseases (CKD)
11. Acute tubular necrosis

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

12. Carpel tunnel syndrome
13. Asymptomatic bacteriuria
14. Causes of acute renal failure in pregnancy
15. Causes of haematuria
16. Factors associated with struvite stone formation
17. Uric acid stone causes
18. What is orthostatic proteinuria?
19. Name few foods containing high potassium.
20. Causes of haematuria
21. Diet in CKD stage three and stage four
22. Normal value of Serum calcium, Phosphorus and albumin
23. Causes of lower urinary tract obstruction

Rajiv Gandhi University of Health Sciences, Karnataka

*****

II Year B.Sc. Renal Dialysis Technology Degree Examination – SEP-2019

Time: Three Hours Max. Marks: 80 Ma

Concept of Renal Diseases – (RS)

Q.P. CODE: 1247

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

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Define Chronic Kidney Disease (CKD). What are the stages of CKD? Enumerate the various modalities of treatment available for a patient of CKD Stage 5.
2. Define Nephrotic syndrome. Discuss the Histological findings of Primary Nephrotic Syndrome and treatment of Minimal Change Disease in Children.
3. Define UTI. Enumerate the causes of obstructive Uropathies in male and female (both children and adults)

SHORT ESSAYS (Answer any Six) 6 x 5 = 30 Marks

4. ANEMIA OF CKD
5. Tumors of the kidney
6. Pregnancy associated Renal Disease
7. Autosomal Dominant Polycystic Kidney Disease
8. Secondary causes of Nephrotic Syndrome
9. Classification of Acute renal Failure
10. Asymptomatic Urinary abnormalities
11. Reno vascular Hypertension

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

12. Causes of Acute renal Failure
13. Name the organisms causing UTI
14. Name three different Intra Venous (IV) Preparations available
15 Management of Heperkalemia
16. Name the three anti-hypertensive drugs
17. Name three Phosphate binders
18. Name three causes of gross hematuria
19. Name three target organs damaged in Uncontrolled Hypertension
20. Write the target values of the following in CKD stage 5 patient
    a) Hemoglobin b) Serum Calcium C) Serum Phosphorus
21. Name the hormones produced by kidney
22. Urine findings in Acute Glomerulonephritis
23. Name the vaccines used in CKD and there Schedule

*****

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – OCT-2019

Time: Three Hours Max. Marks: 80 Ma

Pharmacology Related to Haemo and Peritoneal Dialysis – (RS)

Q.P. CODE: 1248

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

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Classify antihypertensive drugs. Write in detail about Calcium Channel Blockers.
2. Classify anticoagulants? Write in detail about Heparin?
3. Define disinfectants? Write about formalin and its adverse effects?

SHORT ESSAYS (Answer any Six) 6 x 5 = 30 Marks

4. Bicarbonates.
5. Potassium exchange resins.
6. Injectable Iron preparations.
7. Water Soluble Vitamins.
8. Antiseptics.
9. Plasma expanders.
10. Phenobarbitone.
11. Propronobal.

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

12. Vitamin D analogues.
13. Potassium sparing diuretics.
14. 3 Complications of Haemodialysis.
15 Erythropoietin.
16. 3 Causes of fluid over load.
17. Drugs used in hypotension.
18. Use and adverse effects of Furosemide.
19. Protamine sulphate.
20. Name three thiazide diuretics. Write three adverse effects of thiazides.
21. Phosphate binders.
22. Name 3 ACE inhibitors.
23. Write 3 Adverse effects of Insulin.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – OCT-2019

Time: 3 Hours Max. Marks: 40 Marks

Applied Anatomy

Q.P. Code: 1249

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 1249 and 1250 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Explain the renal handling of sodium, glucose and potassium in PCT.
2. Describe the femoral artery under the following headings: origin, termination, course, branches and applied anatomy.

SHORT ESSAYS (Answer any Three) 3 x 5 = 15 Marks

3. Blood supply of kidney
4. Male urethra
5. Radial artery
6. Cephalic vein

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

7. Name the branches of abdominal aorta.
8. Capsules of prostate
9. Contents of hilum of kidney
10. Derivatives of Mesonephric duct
11. Transitional epithelium
12. Beginning and termination of inferior venecava

*****

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (Renal Dialysis Technology) Degree Examination – OCT-2019

Time: 3 Hours | Max. Marks: 50 Marks

Applied Pathology

Q.P. Code : 1351

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

(Note : Both QP Codes 1351 and 1352 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Describe in detail the renal changes in hypertension. What are its complications? Add a note on malignant hypertension.
2. What is nephrotic syndrome? Describe the urine examination findings in nephrotic syndrome. Write briefly about minimal change disease.

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. Congenital anomalies of kidney
4. Acute pyelonephritis
5. Classification of glomerular diseases
6. Urinary tract infections
7. Post-infectious glomerulonephritis
8. Chronic glomerulonephritis

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

9. Nodular glomerulosclerosis
10. End-stage renal disease
11. Hydronephrosis
12. Renal artery stenosis
13. List three causes of hematuria
14. Dialysis-related peritoneal changes

*****

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – OCT-2019

Time: 3 Hours | Max. Marks: 40 Marks

Physiology

Q.P. Code: 1250

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 1249 and 1250 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Explain the role of Renin-angiotensin system in the regulation of BP.
2. Describe the role of loop of henle and vasa recta in the formation of urine.

SHORT ESSAYS (Answer any Three) 3 x 5 = 15 Marks

3. Compare and contrast Juxtaglomerular and cortical Nephron
4. What is clearance? How are clearance test used to measure GFR?
5. Renal dialysis
6. Renal regulation of hydrogen ion

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

7. Write any 10 names of clotting factors.
8. Name three hormones secreted by kidney. Mention their function.
9. Laplace's law
10. Innervations of urinary bladder
11. Reabsorption of sodium in DCT
12. Draw a neat labeled diagram of cystometrogram and explain it.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (Renal Dialysis Technology) Degree Examination – OCT-2019

Time: 3 Hours Max. Marks: 50 Marks

Microbiology

Q.P. Code: 1352

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 1351 and 1352 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Explain parasites causing opportunistic infection.
2. Explain the urinary tract infections in dialysis patients.

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. Acid fast staining
4. Laboratory diagnosis of hepatitis B virus
5. Subclavian catheter infections
6. Sampling methodologies for fungal infections
7. Hand wash technique
8. Hepatitis vaccines

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

9. Infective Hepatitis
10. Universal precautions of HIV
11. Toxoplasmosis
12. Name three selective media.
13. Name three universal precautions used in hospital.
14. Tuberculosis in dialysis patients

*****