

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

February – 2018 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time: 3 Hrs.

Paper – I

[Max. Marks: 100]

Applied Anatomy & Physiology 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 Anatomy (50 Marks)

Q.P Code : RDT301CC

LONG ESSAY

2 X 10 = 20 Marks

1. Illustrate the anterior and posterior relations of right and left kidney.
2. Describe the axillary artery under the following headings: extent, course, branches and applied anatomy.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Relations of kidney.
4. Male urethra.
5. Blood supply and nerve supply of urinary bladder.
6. Course and relations of ureter.
7. Femoral artery – Extension, course and branches.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Enumerate the branches of popliteal artery.
9. Name the coverings of kidney.
10. Name the structures passing through the prostate gland.
11. Femoral canal.
12. Name the tributaries of femoral vein.
13. Name 3 types of abdominal hernias.
14. Name the parts and constrictions of ureter.

Section – B

Applied Physiology (50 Marks)

Q.P Code : RDT302CC

(Use separate answer booklet for Section-B)

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the intrinsic and extrinsic pathway of coagulation. Add a note on bleeding disorders.
2. Describe the mechanism of urine formation. Discuss the role of tubular reabsorption in urine formation.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Clearance concept method for GFR estimation.
4. Regulation of renal circulation.
5. Which are the hormones produced by kidneys? Write a note on Vitamin D.
6. Renal handling of glucose.
7. Renal handling of water.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Normal values of major serum electrolytes.
9. Draw a neat label diagram of nephron.
10. Three functions of angiotensin II.
11. Values of Renal threshold and tubular maximum for glucose.
12. Actions of ADH on kidneys.
13. Diuretics.
14. Aldosterone.

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

February – 2018 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 2 Hrs.

Paper - II

[Max. Marks : 40]

Pharmacology Related To Dialysis Technology

Q.P Code : RDT303CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. Classify diuretics. Mention the mechanism of action, dosage, side effects and contraindications of loop diuretics.

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Explain mechanism of action therapeutic uses and adverse effects of angiotensin converting enzyme (ACE) inhibitors.
3. Explain management of hemodialysis induced hypotension.
4. Intravenous fluid therapy with special emphasis in renal diseases.
5. Explain the factors determining drug dialysability with examples.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Erythropoietin dose and duration of therapy in dialysis induced anemia.
7. Therapeutic uses of Folic acid.
8. Mention three vasopressors.
9. Name three analgesics safely used in renal failure.
10. Drugs used in the treatment of anaemia.
11. Mention phosphate binders with their clinical uses.

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

February – 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 : RDT304CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Define Nephrotic syndrome. Discuss aetiopathogenesis of Nephrotic syndrome and its treatment.
2. Define Chronic Kidney Disease (CKD). Mention the stages of CKD and causes of CKD.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Food patterns and its relation to health.
4. Mention the causes of primary and secondary Nephrotic syndrome.
5. Acute Glomerulonephritis- Clinical features and management.
6. Define Acute kidney Injury and write a note on RIFLE criteria.
7. Urinary tract Infection- Clinical features and management.
8. Renal Replacement Therapy for CKD Stage 5.
9. Obstructive Uropathy and its management.
10. Dietary management in renal disease patients.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Asymptomatic Bacteriuria.
12. Hormones produced by the kidney.
13. Name three organisms causing Urinary Tract Infection.
14. Vitamin D and Kidney.
15. Parathyroid Hormone.
16. Erythropoietin.
17. Prevention of Food Adulteration.
18. Mention the Normal Values of Serum Albumin, Serum Calcium and Serum Phosphorus.
19. Active Urinary Sediment.
20. Name three Iron Preparations used Intravenously.
21. Autosomal Dominant Polycystic Kidney Disease (ADPKD).
22. Horse Shoe Kidney.

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