

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

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 related to Dialysis Technology (50 Marks)

Q.P Code : AHS-134

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the prostate under the following headings.
a) Lobes b) Structures passing through it c) Venous drainage
2. Describe the femoral artery under the following headings. a) Origin b) Course c) Relations d) Branches

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Greater Omentum.
4. Parts of the nephron.
5. Femoral Hernia.
6. Segmental arteries of the kidney.
7. Trigone of the bladder

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Horse shoe kidney.
9. Median cubital vein.
10. Hepatorenal pouch.
11. Epiploic foramen.
12. Carotid body.
13. Hesselbach's triangle.
14. Coverings of kidney.

Section – B

Applied Physiology related to Dialysis Technology (50 Marks)

Q.P Code : AHS-135

(Use separate answer booklet for Section-B)

LONG ESSAY

2 X 10 = 20 Marks

1. Name the buffer system of the kidney. Explain the functioning of any one.
2. List the clotting factors. Explain extrinsic pathway for initiating blood clotting. Add a note on Hemophilia.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Define glomerular filtration rate. Briefly explain the factors affecting it.
4. Explain creatinine clearance.
5. Name three hormones secreted by kidney. Explain any one hormone.
6. What is the role of antidiuretic hormone in urine formation? Explain its mechanism of action.
7. What is normal PH of urine? Explain post prandial alkaline tide.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. What is glycosuria? What is renal threshold for glucose? Give normal value.
9. Explain the role of peritubular capillaries in urine formation.
10. Define and give normal values of BT and CT.
11. Draw a neat labeled diagram of glomerular membrane.
12. Explain why renal medulla is more prone to hypoxia.
13. What is the normal value for urea clearance? What does it indicate?
14. What is the basis behind the restricted sodium and water intake in chronic renal failure patient?

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

July-2017 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

LONG ESSAY

2 X 10 = 20 Marks

1. Write briefly about erythropoietin, its uses and side effects.
2. Classify diuretic agents. Explain the pharmacological actions and side effects of furosemide.

SHORT ESSAY(Answer any Six)

6X 5 = 30 Marks

3. Adverse effects of thiazides.
4. Vasopressor agents.
5. Phosphate binders.
6. Write the side effects of parenteral Iron preparations.
7. IV fluids used during dialysis.
8. Complications seen during dialysis.
9. Pharmacological actions of calcium channel blockers.
10. Write about dialysable drugs.

SHORT ANSWERS(Answer any Ten)

10 X 3 = 30 Marks

11. Vitamin D.
12. Name three antihypertensive agents with doses.
13. Folic acid.
14. Mention three nephrotoxic drugs.
15. Oral antihistaminics.
16. Metoprolol.
17. Drugs used in hypotension.
18. Parathyroid hormone. Explain three pharmacological actions.
19. Name three drugs used during dialysis.
20. Vitamin B.
21. Contraindications of Alpha blockers.
22. Treatment of anaphylactic shock.

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

July 2017 Examination

B.Sc. Renal Dialysis Technology (RDT)

Time : 2.30 Hrs.

Paper - III

[Max. Marks: 80]

Concept of Renal Disease & its Management

Q.P. Code: AHS-137

LONG ESSAY

2 X 10 = 20 Marks

1. Describe management of acute kidney injury in a patient who has suffered crush injuries during a building collapse.
2. Discuss the etiopathogenesis and management of secondary nephrotic syndrome.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Discuss the role of dietary factors in etiology of anemia.
4. Discuss measures taken to prepare patients of chronic kidney disease for renal replacement therapy.
5. Emphysematous pyelonephritis.
6. Renal complications during pregnancy.
7. Drugs causing renal failure.
8. Urinary findings in nephritic syndrome.
9. Complications of nephrotic syndrome.
10. Anti GBM disease and its management.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Define the terms oliguria, anuria and nocturia.
12. Pre emptive kidney transplantation.
13. DEXA scan.
14. Myths about kidney disease.
15. Cystatin - C.
16. Essential fatty acids and PUFA.
17. Dietary factors affecting blood pressure.
18. Role of genetics in kidney disease.
19. Foods rich in potassium.
20. Fat soluble vitamins.
21. Methods of collecting urinary specimen.
22. Hepatorenal syndrome.

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