

Reg. No:

**Second Year B.Sc Dialysis Technology Degree Supplementary
Examinations September 2023**

**Paper I – Applied Anatomy and Physiology related to Dialysis
(2020 Scheme)**

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

QP CODE: 211023

Applied Anatomy

Max. Marks: 50

Essay

(10)

1. (a) Describe the gross anatomy and histology of the kidney.
(b) Comment on the blood supply of the kidney.

Short Notes

(5x8=40)

2. Peritoneal folds
3. Describe the parts of the male urethra
4. Histology of the ureter
5. Explain the veins of the upper limb and their clinical significance
6. Vascular segments of the kidney

QP CODE: 212023

Applied Physiology

Max. Marks: 50

Essay

(10)

1. List the coagulation factors. With the help of a schematic diagram, describe the intrinsic pathway of coagulation . Add a note on clotting time. (4+4+2)

Short Notes

(5x8=40)

2. Describe the mechanism of urine formation.
3. Write the value of normal serum levels of Na⁺ and K⁺. Explain hypokalemia and hyponatremia.
4. Explain the tests for assessment of residual renal function.
5. Describe the features of renal circulation.
6. Enumerate the functions of kidney.
