

**Second Year B.Sc Dialysis Technology Degree Supplementary  
Examinations June 2025**

**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. Describe Kidney under the following headings
  - a) Coverings
  - b) Structures passing through hilum in order
  - c) Anterior and posterior relations of left kidney
  - d) Applied importance

**Short Notes**

**(5x8=40)**

2. Microscopic structure of ureter
3. Describe inguinal hernia
4. Surfaces, borders, and relations of male urinary bladder
5. Origin, course, branches, and applied anatomy of Femoral artery
6. Formation, course, tributaries and applied importance of Cephalic vein

\*\*\*\*\*

**QP CODE: 212023**

**Applied Physiology**

**Max. Marks: 50**

**Essay**

**(10)**

1. Explain the different pathways of coagulation. Name two tests of hemostasis

**Short Notes**

**(5x8=40)**

2. Explain Glomerular filtration rate. What are the factors affecting it
3. Explain Metabolic acidosis and alkalosis
4. Explain renal clearance studies
5. Write the physiological changes in renal function during pregnancy
6. Describe the renal reabsorption of Sodium

\*\*\*\*\*