

Reg. No: .....

**Second Year B.Sc Dialysis Technology Degree Regular/Supplementary  
Examinations March 2024**

**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 urinary bladder  
(b) Comment on the supports of the urinary bladder

**Short Notes**

**(5x8=40)**

2. Umbilical hernia
3. Anatomy of the peritoneum and its applied importance
4. Write in detail on the changes of prostate with age
5. Explain the femoral artery and its clinical significance
6. Comment on the longitudinal section of the kidney

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**QP CODE: 212023**

**Applied Physiology**

**Max. Marks: 50**

**Essay**

**(10)**

1. Define hemostasis. With the help of a schematic diagram, explain the intrinsic and extrinsic pathways of coagulation

**Short Notes**

**(5x8=40)**

2. Explain the factors determining glomerular filtration rate in kidney
3. Describe the renal function tests
4. Describe the physiological changes in renal function during pregnancy
5. List the hormones produced by kidney and explain their physiological actions
6. Describe bleeding time and clotting time. Write its normal values

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