

**First Year B.Sc Dialysis Technology Regular/Supplementary  
Examinations November 2024**

**Basics of Physiology**

**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*

**Essay**

**(20)**

1. Define glomerular filtration rate. Describe the factors regulating GFR. Add a note on glucose reabsorption (2+12+6)

**Short Notes**

**(10x8=80)**

2. Actions of thyroid hormone
3. Mechanism of skeletal muscle contraction
4. Composition and regulation of pancreatic juice
5. Stages of erythropoiesis
6. Lung volumes and capacities
7. Functions of cerebellum
8. Physiological changes during pregnancy
9. Mechanism of hearing
10. Arterial pulse
11. Plasma proteins

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