

First Year B.Sc Dialysis Technology Supplementary Examination
June 2025

Basics of Biochemistry

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. Dietary sources, RDA, Biochemical functions and any two deficiency manifestations in detail of Vitamin A.

Short Notes

(10x8=80)

2. Preparation of primary and secondary standard solution with an example
3. Enzymes to assess liver function
4. Hyponatremia
5. Blood buffers and its role in defense mechanism
6. Albumin and its functions
7. Metabolic acidosis with a note on Anion gap
8. Principles of estimating serum electrolytes
9. Creatinine clearance and its significance
10. Protein energy malnutrition
11. pH meter
