

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

**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. Enumerate the functions of kidney. Explain the different tests to assess the functions of kidney.

**Short Notes**

**(10x8=80)**

2. Universal pH indicators
3. Biochemical functions of Vitamin D
4. Hyperkalemia
5. Analysis of urinary calculi.
6. Van den Berg Reaction and its interpretation
7. Plasma Proteins and its importance
8. Metabolic Alkalosis
9. Precautions, procedures and principles of Arterial Blood Gas analysis
10. Renal mechanisms of maintaining blood pH
11. Compare and contrast conventional from SI units

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