



*Class 1*

*Medical chemistry*

*lecture : 3*

## Lecture Title: Buffer- PH and Acid-Base Balance

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## Objective

- Introduction
- A buffer solution
- Buffers in the body
- Protein buffer system
- Hemoglobin as a Buffer
- Carbonic acid bicarbonate buffer system:
- Phosphate Buffer system:





- **Henderson – Hasselbalch Equation For Buffer Solutions**
- **Solved Example**
- **The Importance of Hydrogen Ion Concentration**
- **pH imbalance**
- **Tow Factors That Contribute to Blood PH Imbalance**
- **Good acid- base balance and blood PH levels promote :**





# QUESTIONS

Dr. Huda Mahdi

