



# **RASHIDA IQBAL FINANCIAL AID ORGANIZATION**

## **IMPORTANT TOPICS REGARDING WATER AND ELECTROLYTE IMBALANCE**

**Recommended book:** Satyanarayana

### **Important topics:**

- Dehydration, its characteristic features, dehydration in cholera
- Maintenance of blood pH, normal blood pH , Intracellular pH
- Types of blood buffers in detail and their Pka , (Also remember the **predominant one** : *bicarbonate buffer system*, alkali reserve , **intracellular buffer** : *Phosphate buffer system* )
- Henderson Hasselbach Equation
- Respiratory and Renal Mechanism for pH regulation with figures (Renal mechanism is also important, any of the 4 mechanisms mentioned in it, can be asked alone in detail)
  
- Disorders of acid-base balance (table 21.4)
- Anion gap in detail
- Metabolic and respiratory acidosis and alkalosis , their differences and examples (Table 21.6 for simplification)
- Table 21.7 for reference ranges (To diagnose whether presented case is acidosis or alkalosis)

Hope this helps, Good Luck!

Regards,

Rameesha Ahmed

Publications incharge - RIFAQ

