

AHS Ldhran
Amino acids

1. Define amino acid and protein.

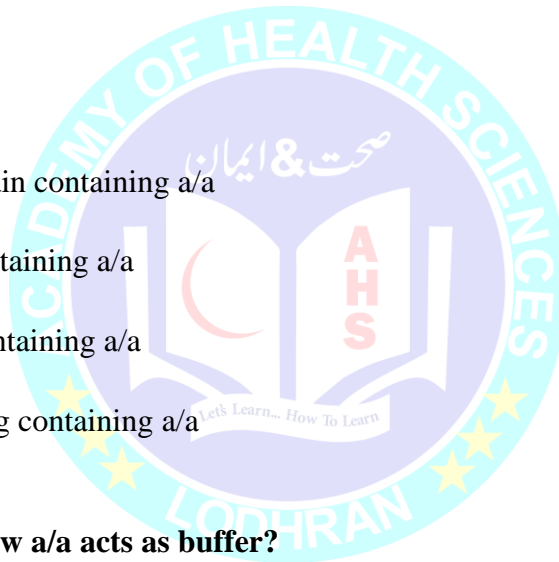
2. General formula of amino acid.

3. Amino acids on the basis of dietary requirements (with their abbreviations)

Essential a/a	
Non-essential a/a	

4. Amino acids on the basis of their chemical nature

- a. Acidic a/a
- b. Basic a/a
- c. Neutral a/a
 - i. Aliphatic chain containing a/a
 - ii. Sulphure containing a/a
 - iii. Hydroxyl containing a/a
 - iv. Aromatic ring containing a/a



5. What is zwitter ion and how a/a acts as buffer?

6. Define the following terms

- a. Peptide bond
- b. Isoelectric pH
- c. Domain
- d. Motifs

7. What are the major processes of the protein metabolism

- a. Deamination
- b. Amino acids conversion
- c. Amino acids derivatives
- d. Deamidation
- e. Transamination
- f. Methylation
- g. Decarboxylation

8. What is urea cycle

9. Describe ketogenic a/a and glucogenic a/a



10. Enlist 10 amino acids metabolic disorders in humans