Contents

1. Cell and Plasma Membrane **1–8**

2. Enzymes **9–24**

3. Chemistry of Carbohydrates **25–31**

4. Digestion, Absorption and Metabolism of Carbohydrates **32–56**

5. Chemistry of Lipids **57–63**

6. Digestion, Absorption and Metabolism of Lipids **64–89**

7. Amino Acid and Protein Chemistry **90–103**

8. Digestion, Absorption and Metabolism of Proteins **104–134**

- Glycine *113*
- Phenylalanine *116*
- Tryptophan *121*
- Methionine *123*
- Cysteine *126*
- Histidine *128*
- Branched Chain Amino Acids *129*
- Aspartate and Asparagine *131*
- Glutamate *131*

9. Biological Oxidation **135–140**

10. Vitamins **141–157**

- Fat-soluble Vitamins *142*
- Water-soluble Vitamins *149*