

## Chapter 27 – Protein Metabolism

### 27.1 The Genetic Code

All of the sub-sections are important.

### 27.2 Protein Synthesis

The following sub-sections are important:

- The Introduction
- Protein Biosynthesis Takes Place in Five Stages
- The Ribosome is a Complex Supramolecules Machine
- Transfer RNAs Have Characteristic Structural Features
- Stage 1: Amino-tRNA Synthetases Attach the Correct Amino Acids
- Stage 2: A Specific Amino Acid Initiates Protein Synthesis
- Stage 3: Peptide Bonds are Formed in the Elongation Stage
- Stage 4: Termination of the Polypeptide Synthesis Requires a Special Signal
- Stage 5: Newly Synthesized Polypeptide Chains Undergo Folding and Processing