

## Biology Chapter 2 Self Quiz Answers In Appendix III Questions and Answers PDF

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**What is the primary function of ribosomes in a cell?**

- Energy production
- Protein synthesis ✓**
- Lipid storage
- DNA replication

Ribosomes are essential cellular structures that synthesize proteins by translating messenger RNA (mRNA) into polypeptide chains. They play a crucial role in the expression of genes and the overall functioning of the cell.

**Which of the following are functions of the mitochondria in eukaryotic cells?**

- ATP production ✓**
- Photosynthesis
- DNA replication
- Regulation of cellular metabolism ✓**

The mitochondria are essential organelles in eukaryotic cells responsible for producing ATP through cellular respiration, regulating metabolic processes, and maintaining cellular energy balance.

**Explain the role of enzymes in biological reactions and how they affect the activation energy of a reaction. Provide examples to support your explanation.**

**Enzymes act as catalysts in biological reactions, lowering the activation energy required for reactions to occur, thus increasing the reaction rate. For example, amylase breaks down starch into sugars in the digestive system.**