

## Instructions

Read each question carefully and answer to the best of your ability.

**1. Describe the process of photosynthesis. Include the main ingredients and end products.**

**2. What is the role of mitochondria in a cell? Explain in your own words.**

**3. List and explain the four main types of macromolecules found in living organisms. Provide one example of each.**

**4. Choose one of the following: a plant cell or an animal cell. Describe its structure and key differences compared to the other type of cell.**

**5. Why is biodiversity important for ecosystems? Give at least three reasons.**

**6. Define natural selection and give an example of how it works in nature.**

**7. Name two major differences between prokaryotic and eukaryotic cells.**

**8. Explain the importance of DNA in living organisms.**