- 1. Elaborate on the mechanism of photosynthesis in plants. How does this process play a crucial role in maintaining ecological balance?
- 2. Explore the functions of enzymes in cellular activities. Provide specific examples and elucidate their significance in biological systems.
- 3. Compare and discuss the phases of mitosis and meiosis. Explain their respective roles in the reproduction and development of organisms.
- 4. Examine the molecular structure of DNA and its functions. How does the replication of DNA ensure the continuity of genetic information across generations?
- 5. Evaluate the anthropogenic impact on biodiversity. Offer examples and propose effective strategies for the conservation of biological diversity.