- 1. Describe the process of cellular respiration and its significance in providing energy for cell functions. Compare and contrast it with photosynthesis.
- 2. Discuss the role of enzymes in biological systems. Provide examples of how enzymes contribute to various biochemical reactions within living organisms.
- 3. Compare mitosis and meiosis in detail, highlighting the key differences and their respective contributions to the growth and reproduction of cells.
- 4. Explain the structure of RNA and its role in protein synthesis. Compare and contrast RNA with DNA, emphasizing their similarities and differences.
- 5. Investigate the impact of genetic engineering on agriculture and medicine. Discuss the ethical considerations surrounding the manipulation of genetic material.