

**Section B - Fill in the Blanks**

- Q1. The basic unit of heredity is \_\_\_\_\_. (2 marks)
- Q2. The process of converting electrical energy into chemical energy is called \_\_\_\_\_. (2 marks)
- Q3. The SI unit of power is \_\_\_\_\_. (2 marks)
- Q4. \_\_\_\_\_ is the process of removal of impurities from ores. (2 marks)

**Section C - Short Answer Questions**

- Q1. Explain the process of respiration in humans. (6 marks)
- Q2. Describe the different types of chemical reactions with examples. (6 marks)
- Q3. Explain the concept of reflection of light and its laws. (6 marks)

**Section D - Long Answer Questions**

- Q1. Explain the structure and function of the human heart. (5 marks)
- Q2. Describe the different types of pollution and their effects on the environment. (5 marks)
- Q3. Explain the process of photosynthesis and its importance. (5 marks)

**Section E - Matching Questions**

- Q1. Match the following: ■A. Photosynthesis    1. Production of electricity ■B. Respiration    2. Conversion

**Section F - Case Study**

- Q1. A farmer observes that his crops are not growing well. He notices a lack of essential nutrients in the soil.