

## Generated Question Paper

Question 1: MCQ: What is the by-product of photosynthesis that is released into the atmosphere? A) Oxygen B) Carbon dioxide C) Glucose D) Water

Question 2: What is the by-product of cellular respiration that is expelled from the lungs during exhalation?

Question 3: Short Answer: Describe the difference between a nucleotide and a nucleoside in DNA structure.

Question 4: Describe the light-dependent reactions of photosynthesis, explaining the role of light, electron carriers, and the formation of ATP and NADPH.

Question 5: Describe the mechanism of breathing during inspiration and expiration, explaining the role of diaphragm, intercostal muscles, and rib cage, and illustrate your answer with a labeled diagram.