Q1: What is the overall chemical equation for photosynthesis?

A1: 6H₂O + 6CO₂ + Light Energy → C₆H₁₂O₆ + 6O₂

Q2: What are the reactants in photosynthesis?

A2: Sunlight, water (H₂O), and carbon dioxide (CO₂)

Q3: What are the products of photosynthesis?

A3: Glucose (C₆H₁₂O₆) and oxygen (O₂)

Q4: What is the role of chlorophyll in photosynthesis?

A4: Chlorophyll is a green pigment that absorbs light energy, initiating the process of photosynthesis.

Q5: Where does photosynthesis take place in plants?

A5: In chloroplasts, specialized organelles within plant cells.