AI P3 Lab-6

Domain-Specific Applications

Lab-6

**Objective:** Use ChatGPT to generate quiz questions from educational content.

### **Prompt Design:**

**Prompt:** *Generate a 5-question multiple choice quiz (with 4 options each) based on the topic “Photosynthesis in Plants.” Include the correct answer after each question.*

**Why this prompt works:**

* **Specific topic** (Photosynthesis)
* **Clear task** (generate quiz)
* **Constraints** (5 questions, multiple choice, 4 options)
* **Expected structure** (include correct answer)

### **ChatGPT Output:**

**Quiz: Photosynthesis in Plants**

1. What is the main purpose of photosynthesis?  
    A. To break down food  
    B. To produce oxygen for animals  
    C. To convert sunlight into chemical energy  
    D. To absorb water  
    **Answer:** C
2. Which organelle in the plant cell is responsible for photosynthesis?  
    A. Mitochondria  
    B. Nucleus  
    C. Ribosome  
    D. Chloroplast  
    **Answer:** D
3. What gas do plants absorb during photosynthesis?  
    A. Oxygen  
    B. Nitrogen  
    C. Carbon dioxide  
    D. Hydrogen  
    **Answer:** C
4. What is the main pigment involved in photosynthesis?  
    A. Hemoglobin  
    B. Keratin  
    C. Chlorophyll  
    D. Melanin  
    **Answer:** C
5. What are the products of photosynthesis?  
    A. Water and sunlight  
    B. Carbon dioxide and glucose  
    C. Oxygen and glucose  
    D. Oxygen and carbon dioxide  
    **Answer:** C

**Evaluation:**

| **Criteria** | **Evaluation** |
| --- | --- |
| Relevance | All questions accurately reflect the topic |
| Structure | Clear multiple-choice format, 4 options |
| Correctness | All answers are scientifically accurate |
| Clarity | Questions are well-written and understandable |
| Educational Use | Suitable for students at middle/high school level |