

# **AIS Learning**

## **B.Sc. Biological Sciences - Botanical Science**

### **Practice Tutorial**

#### **Lesson 02: Plant Physiology**

**1. Photosynthesis:**

- a. What is photosynthesis and where does it occur in a plant cell?
- b. Name the two main stages of photosynthesis.

**2. Transpiration:**

- a. Define transpiration in plants.
- b. Explain the role of stomata in transpiration.

**3. Respiration in Plants:**

- a. Describe the process of respiration in plants.
- b. How does respiration differ from photosynthesis?

**4. Plant Hormones:**

- a. Name three types of plant hormones.
- b. Explain the function of auxins in plant growth.

**5. Nutrient Uptake:**

- a. How do plants absorb nutrients from the soil?
- b. Name three essential nutrients for plant growth.

**6. Water Movement in Plants:**

- a. Explain how water is transported in plants.
- b. What is the role of xylem in water movement?

**7. Tropisms in Plants:**

- a. Define phototropism.
- b. Provide an example of a plant exhibiting gravitropism.

**8. Plant Adaptations to Environmental Stress:**

- a. Name an adaptation that helps plants survive in arid environments.

b. How do plants adapt to low light conditions?

9. Senescence in Plants:

- a. Define senescence in the context of plants.
- b. What are the factors that contribute to leaf senescence?

10. Circadian Rhythms in Plants:

- a. Explain what circadian rhythms are in plants.
- b. Provide an example of a plant process influenced by circadian rhythms.

Try those questions by yourself, and submit your answers to us.  
We can evaluate it for you!!!!  
Happy Learning!!!!

-Evaluation Team AIS Learning