

Section 25-2 Plant Responses (pages 639-642)

Key Concepts

- What are plant tropisms?
- What is photoperiodism?
- How do deciduous plants prepare for winter?

Tropisms (page 639)

1. What are tropisms? _____

2. What do tropisms demonstrate about plants? _____

3. Complete the table about plant tropisms.

PLANT TROPISMS

Tropism	Definition
Gravitropism	
Phototropism	
	The response of a plant to touch

4. Circle the letter of each sentence that is true about the effects of thigmotropism.
 - a. The tendrils of a grapevine wrap tightly around any object they encounter.
 - b. A plant that is touched regularly may be stunted in growth.
 - c. The stems of climbing plants don't grow straight up.
 - d. When the tip of a vine encounters an object, it breaks off.

Rapid Responses (page 640)

5. The folding together of mimosa leaflets when touched is the result of what changes in cells at the base of each leaflet? _____

6. What does a fly trigger in a Venus flytrap that causes the leaf to snap shut? _____

Photoperiodism (page 641)

7. Why are plants such as chrysanthemums and poinsettias called short-day plants? _____

8. What are long-day plants? _____

Section 2plant Responses Answer Key

Xiang Xie



Section 2plant Responses Answer Key:

Three Mile Island U.S. Nuclear Regulatory Commission. Special Inquiry Group, Mitchell Rogovin, 1980 **Plant Responses to Air Pollution** Umesh Kulshrestha, Pallavi Saxena, 2016-08-02 This book focuses upon air pollution types of air pollutants and their impact on plant physiological and biochemical systems The book begins with a brief background on air pollution and continues with a discussion on different types effects and solutions to the pollution The chapters that follow explore the different effects of pollution on chloroplasts respiration biochemistry and physiology of plant cells Moreover it covers the basic concepts of atmospheric transport and transformations of pollutants and issues of global change and the use of science in air pollution policy formulation It also emphasises about the effects of air pollutants in altering plant response to common stresses both abiotic and biotic fields by giving the focus on the physiology of plant This book act as a valuable tool for students in Environmental Science Biological Science and Agriculture It will be unique to environmental consultants researchers and other professionals involved in air quality and plant related research During past few decades air pollution and poor air quality have been the issues of common concerns Degraded air has adverse effects on various system of plants by creating a stress which develops biochemical and physiological disorder in plants Chronic diseases and or lower yield have reported consequences of air pollution effect A large number of biochemical and physiological parameters have been used to assess impact of air pollution on plant health Photosynthetic machinery and respiratory system are the most affected domain of plants However the survival of plants depend on various internal and external factors such as plant community types of air pollutants geographical region meteorological conditions and soil moisture etc Plants respond to both biotic and abiotic stresses accordingly Many tolerant plants survive easily even in higher air pollution region Certain plant species absorbs selected gaseous air pollutants and hence plants are effective tool for air pollution remediation *Academic Vocabulary* Stephanie Paris, Christine Dugan, 2011-06 Integrate academic vocabulary instruction into content area lessons with this engaging new resource for Level 5 which provides teachers with 12 easy to implement strategies for teaching academic vocabulary Included are 25 step by step standards based lessons that each incorporate two vocabulary strategies Also included are activity pages and assessments an answer key and a Teacher Resource CD Recent Advances on Grapevine-Microbe Interactions: From Signal Perception to Resistance Response Aziz Aziz, Michele Perazzolli, Dario Cantu, Eva Maria Zyprian, David Gramaje, 2020-09-17 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact **Teacher's Wraparound Edition: Twe Biology**

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