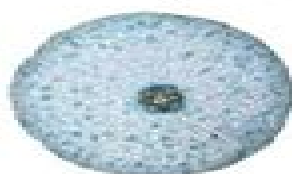


Understand Key Concepts

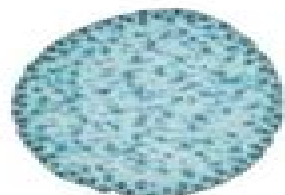
17. Which fill(s) the space between spongy mesophyll cells?
A. chlorophyll **C.** cells
B. gases **D.** vascular tissue
18. Which image shows a eudicot stem?



A.



B.



C.



D.

19. Which image above shows one ring of vascular bundles?
A. A **C.** C
B. B **D.** D
20. Which plant structure is not part of a root?
A. endodermis **C.** pericycle
B. root cap **D.** stomata
21. Which control(s) the movement of water vapor through the stomata?
A. bark **C.** ethylene
B. pericycle **D.** cytokinin
C. guard cells
D. vascular tissues

Constructed Response

22. **Open Ended** List some environmental factors that might affect transpiration.
23. **Short Answer** Describe the control of materials as they are transported from soil to a root's vascular tissue.

Think Critically

24. **Evaluate** some leaf modifications in terms of their functions.
25. **Summarize** the reasons why eudicot stems can have a greater increase in diameter than most monocot stems.

Section 22.3

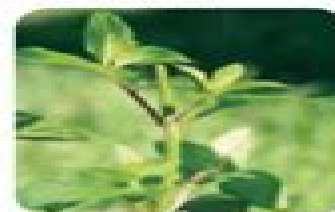
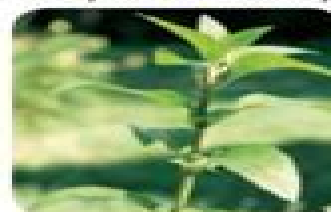
Vocabulary Review

Explain the difference between the terms in each pair below. Then explain how they are related.

26. hormone, auxin
 27. ethylene, gibberellins
 28. tropic response, nastic response

Understand Key Concepts

Use these photos to answer questions 29 and 30.



29. What plant condition do these photos show?
A. apical dominance **C.** leaf drop
B. dwarfism **D.** nastic movements
30. Which hormone controls this plant condition?
A. auxin **C.** ethylene
B. gibberellin **D.** cytokinin
31. Which describes a positive phototropism?
A. The plant grows away from the light.
B. The plant grows toward the light.
C. The plant grows toward gravity.
D. The plant grows away from gravity.
32. Which is involved in the transport of gibberellins throughout the plant?
A. cork cambium **C.** vascular tissue
B. guard cells **D.** apical meristem

Answers For Plant Structure

J Elliott



Answers For Plant Structure:

An Introduction to Plant Structure and Development Charles B. Beck, 2005-10-27 An Introduction to Plant Structure and Development incorporates basic knowledge of plant anatomy with contemporary information and ideas about the development of structure and form **Plant Anatomy** Richard Crang, Sheila Lyons-Sobaski, Robert Wise, 2018-11-30 Intended as a text for upper division undergraduates graduate students and as a potential reference this broad scoped resource is extensive in its educational appeal by providing a new concept based organization with end of chapter literature references self quizzes and illustration interpretation The concept based pedagogical approach in contrast to the classic discipline based approach was specifically chosen to make the teaching and learning of plant anatomy more accessible for students In addition for instructors whose backgrounds may not primarily be plant anatomy the features noted above are designed to provide sufficient reference material for organization and class presentation This text is unique in the extensive use of over 1150 high resolution color micrographs color diagrams and scanning electron micrographs Another feature is frequent side boxes that highlight the relationship of plant anatomy to specialized investigations in plant molecular biology classical investigations functional activities and research in forestry environmental studies and genetics as well as other fields Each of the 19 richly illustrated chapters has an abstract a list of keywords an introduction a text body consisting of 10 to 20 concept based sections and a list of references and additional readings At the end of each chapter the instructor and student will find a section by section concept review concept connections concept assessment 10 multiple choice questions and concept applications Answers to the assessment material are found in an appendix An index and a glossary with over 700 defined terms complete the volume **Anatomy of Angiosperms & Economic Botany- Botany for B.Sc. Students, Sem B P PANDEY**, This textbook has been designed to meet the requirements of B Sc Third Semester Core VI Botany students for all Odisha State Universities and Colleges under the recommended National Education Policy 2020 It comprehensively covers theory and practical papers namely Anatomy of Angiosperms and Economic Botany **Complete IELTS Bands 5-6.5 Student's Book with Answers with CD-ROM** Guy Brook-Hart, Vanessa Jakeman, 2012-01-19 A course to prepare students for the IELTS test at an intermediate level B2 Combines contemporary classroom practice with topics aimed at young adults *Biology Workbook For Dummies* Rene Fester Kratz, 2022-07-13 Get a feel for biology with hands on activities Biology Workbook For Dummies is a practical resource that provides you with activities to help you better understand concepts in biology Covering all the topics required in high school and college biology classes this workbook gives you the confidence you need to ace the test and get the grade you need Physiology ecology evolution genetics and cell biology are all covered and you can work your way through each one or pick and choose the topics where you could use a little extra help This updated edition is full of new workbook problems updated study questions and exercises and fresh real world examples that bring even the tough concepts to life Get extra practice in biology with activities questions and exercises

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Contemporary Problems in Plant Anatomy Richard White, 2012-12-02 Contemporary Problems in Plant Anatomy contains the proceedings of a plant anatomy symposium that took place at Duke University and The University of North Carolina at Chapel Hill in 1983 The symposium addressed challenges in four basic research areas in contemporary plant anatomy leaf development floral development differentiation of cells and tissues and systematic and ecological anatomy The book highlights new techniques and approaches for dealing with problems in each of these areas Organized into 12 chapters this volume begins with an overview of the stem conducting tissues in monocotyledons the development of vascular tissue patterns in the shoot apex of ferns the role of subsidiary trace bundles in stem and leaf development of the dicotyledoneae and the structure of phloem It then discusses the cellular parameters of leaf morphogenesis in maize and tobacco alternative modes of organogenesis in higher plants morphological aspects of leaf development in ferns and angiosperms the origin of symmetry in flowers and intraspecific floral variation The reader is also introduced to structural correlations among wood leaves and plant habit relationships between structure and function in trees and the development of inflorescence androecium and gynoecium with reference to palms This book is a valuable source of information for plant anatomists

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During the 1970s renewed interest in plant mechanical signaling led to the discovery that plants subjected to mechanical stimulation develop shorter and thicker axes than undisturbed plants a syndrome called thigmomorphogenesis Currently mechanosensing is being intensively studied because of its involvement in many physiological processes in plants and particularly in the control of plant morphogenesis From an ecological point of view the shaping of plant architecture has to be precisely organized in space to ensure light capture as well as mechanical stability In natural environments terrestrial plants are subjected to mechanical stimulation mainly due to wind but also due to precipitation while aquatic and marine plants are subjected to current and wave energy Plants acclimate to mechanically challenging environments by sensing mechanical stimulations and modifying their growth in length and diameter and their tissue properties to reduce potential for buckling or breakage From a morphogenetic point of view both external and internal mechanical cues play an important role in the control of cell division and meristem development likely by modulating microtubule orientation How mechanical stimulations are being sensed by plants is an area of intense research Different types of mechanosensors have been discovered or proposed including ion channels gated by membrane tension stretch activation and plasma membrane receptor like kinases that monitor the cell wall deformations Electrophysiologists have measured the conductances of some stretch activated channels and have showed that SAC of different structures can exhibit different conductances The role of these differences in conductance has not yet been established Once a mechanical stimulus has been perceived it must be converted into a biological signal that can lead to variations of plant phenotype Calcium has been shown to function as an early second messenger tightly linked with changes in cytosolic and apoplastic pH Transcriptional analyses of the effect of mechanical stimulation have revealed a considerable number of differentially expressed genes some of which appear to be specific to mechanical signal transduction These genes can thus serve as markers of mechanosensing for example in studies attempting to define signalling threshold or variations of mechanosensitivity accommodation Quantitative biomechanical studies have lead to a model of mechanoperception which links mechanical state and plant responses and provides an integrative tool to study the regulation of mechanosensing This model includes parameters sensitivity and threshold that can be estimated experimentally It has also been shown that plants

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