

Chapter 38: Angiosperm Reproduction and Biotechnology

Key Concepts

- Flowers, double fertilization, and fruits are unique derived features of the angiosperm life cycle
- Flowering plants reproduce sexually, asexually or both

Flowers, double fertilization, and fruits are unique features of the angiosperm life cycle

- Plant life cycles are characterized by the alternation between sporophyte (spore-producing) and gametophyte (gamete-producing) generations
- In angiosperms, the sporophyte is the plant that we see; they are larger, more conspicuous and longer-lived than gametophytes
- The angiosperm life cycle is characterized by **“three Fs”**: flowers, double fertilization, and fruits

Exploring Trends in the Evolution of Flowers

- Much of floral diversity represents adaptation to specific pollinators
- All of these features extremely specialize a plant in terms of pollinator what could put them in the risk of extinction
- **Four general trends can be seen in the evolution of flowers:**

1. Bilateral Symmetry

- Bilateral symmetry – makes insects to move into the flower in a specific way

2. Reduction in Number of Floral Parts

- Contributes to reduction of advertising themselves to avoid predation and nectar robbers

3. Fusion of Floral Parts

4. Ovaries Located Inside Receptacles

- Inside – greater protection of the ovary

Bilateral Symmetry



Reduction in Number of Floral Parts



Fusion of Floral Parts



Ovaries Located Inside Receptacles



Exploring Flower Pollination:

- **Abiotic pollination** – non-living pollinating agent (by wind, water etc.)
- **Biotic pollination** – living pollinating agent (by animals)

Abiotic Pollination by Wind

- Approx. 20% of angiosperms are wind-pollinated
- Wind-pollinated species (e.g. grasses and many trees) release **large amounts of small sized pollen**, thus compensating for unspecialized pollination → **flowers of these plants are not that colorful** since they do not to attract animals

Abiotic Pollination by Wind



Chapter 38 Angiosperm Reproduction And Biotechnology Answers

JG Myers



Chapter 38 Angiosperm Reproduction And Biotechnology Answers:

Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information *Biology* Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece's BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter **Student Study Guide for Biology [by] Campbell/Reece** Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests **MCQs in Plant Breeding Biotechnology and Seed Science** K. Vanangamudi, R. Vinoth, S. Elayabalan, K. Raja, 2019-01-01 The book on MCQs in Plant Breeding Biotechnology and Seed Science has been prepared with the idea of exposing the students those who are preparing for the competitive examinations like Agricultural Research Services NET Public Service Commissions Institute of Banking Personnel Selection University and Institute admissions etc It has three major parts viz Plant Breeding Biotechnology and Seed Science The book has 80 chapters consisting more than 3000 multiple choice questions with answers Genetics breeding methods resistance breeding mutation breeding and polyploidy breeding in Plant Breeding cell biology molecular biology tissue culture animal biotechnology and bioinformatics in Biotechnology and seed formation biology production post harvest processing storage health marketing and legislation in Seed Science are some of the important chapters covered in the book The book is prepared with latest informations and therefore it will be highly useful to the teachers scientists and students for updating their knowledge **General Nursing and Midwifery**

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