

Chapter 38: Angiosperm Reproduction

1. Draw and label a diagram showing the alternation of generations in the angiosperm life cycle. Be sure to include: sporophyte, gametophyte, spore, sperm, egg, zygote, embryo, fertilization, meiosis, mitosis, seed.

2. Explain the how a pollen grain develops from a microspore.

3. Explain what occurs in an ovule to produce an egg.

4. What occurs during:
 - a. Pollination
 - b. Fertilization
 - c. Germination

5. Describe the process of double fertilization.

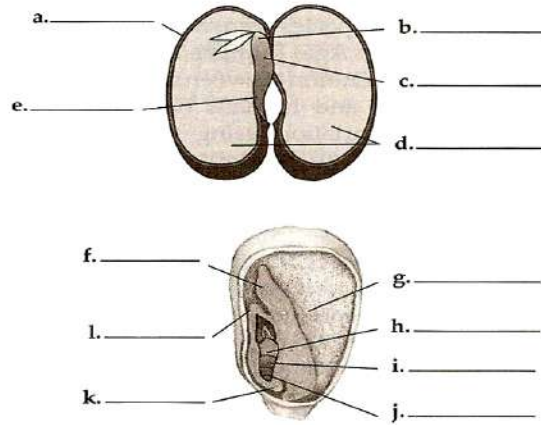
6. What structures give rise to the:
 - a. Embryo
 - b. Seed
 - c. Fruit

7. What are the evolutionary advantages of a seed?

8. List some environmental cues that may be required to break seed dormancy.

INTERACTIVE QUESTION 38.4

Label the parts in the following diagrams of a bean seed and a corn seed.



9. Describe the process of seed germination.

10. What is the purpose of fruit? What are the various methods of seed dispersal?

11. What are the advantages and disadvantages of asexual versus sexual reproduction?

12. List some mechanisms used by plants to prevent self-fertilization.